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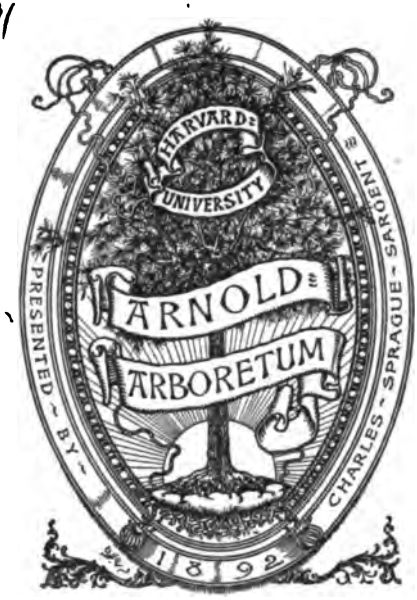
HARVARD UNIVERSITY
ARNOLD ARBORETUM
PRESENTED ~ BY ~ CHARLES ~ SPRAGUE ~ SARGENT
1892

CATALOGUE OF PLANTS

IN THE

BOTANICAL GARDEN, BANGALORE,

AND ITS VICINITY.

SECOND EDITION.

PREPARED BY

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PREFACE.

THE first edition of this Catalogue, published eleven years ago, has in the *Second Edition* now offered to the public been largely augmented in genera, species, and descriptive detail. Though not exhaustive of ornamental exotics in cultivation, or of weeds in the field, the Catalogue may in other respects be considered tolerably complete up to date. It contains 3,222 named species and varieties against 2,020 published in the original list of 1880. The work maintains its former character generally, and with the additional indexes appended, it is hoped that those who are not conversant with scientific terms may be able to discover a fair proportion of the proper names of plants; and hence a knowledge of their affinities and uses, as described by many authors. To facilitate the determination of local species, nearly 800 Kanarese names have been entered, and type specimens of Natural Orders have mostly been preferred from plants with vernacular appellations. Many of these local names are published for the first time, and as the subject is one of some obscurity, the Compiler trusts that errors will be leniently dealt with. The credit attaching to the vernacular work falls to Siddapur Davannah, the plant collector who reported the greater part of the names, and to M. Krishnaswamy Chetty, the writer who revised and tabulated the same.

The diagnostic characters attached to each Natural Order, and other abridged details, such as the approximate color of the flower, are only intended to guide the student to a fuller description in standard works of Systematic Botany. Of the latter, Sir Joseph Hooker's great work "The Flora of British India" will, when completed, be the standard text.

Bangalore is situated in 12° 57′ 37″ North latitude and 77° 36′ 56″ East longitude, at an undulating elevation of 3,000 to 3,100 feet. The average rainfall for the year is 35 inches, but there is a long dry season extending from December till May when a great variety of trees, shrubs, and herbs are ripened into a condition of fertility and subsequent seed-bearing. The three principal gardens of Southern India, Madras, Bangalore, and Ootacamund, are properly situated to represent, respectively, the tropical, sub-tropical, and alpine conditions of the South Indian climate, and plants from any part of the peninsula will usually succeed in one or other of them.

The early history of the Lal-Bagh—Red Garden—is wrapped in some obscurity, but it is known to have been a prolific fruit garden during the time of Hyder Ali, and seems to have maintained the

same function until long after the fall of Tippu Sultan. The tank-bund was originally constructed by forced labor, but was afterwards greatly improved during the incumbency of Mr. William New, the first professional Superintendent of the gardens. During the latter part of Tippu's rule, and for nearly half the present century, the Lal-Bagh was supervised by two Muhammadan Darogahs, father and son. The former, Mahomed Ali, seems to have been invested with considerable powers, and was able to do a great deal for his charge; but Abdul Khader, the son, had limited action and the garden became an ill-kept jungle of fruit trees. Of the latter, some unique specimens of *Mangifera indica* still adorn the grounds. In 1836, the Chief Commissioner of Mysore, Sir Mark Cubbon, made over the Lal-Bagh to an Agri-Horticultural Society, which was then formed for the first time at Bangalore. But on the dissolution of the Society in 1842, or six years later, the property was restored to Government, and has remained in its possession up to the present time. Dr. Hugh Cleghorn, and Mr. Jaffray (Superintendent of the Gardens at Madras) visited the Lal-Bagh in July 1856, and on the recommendation of these officers, it was established, in the following year, as the Government Horticultural Gardens. Mr. New arrived from Kew, and took charge of the gardens in April 1858. In December, 1863, he resigned the office and was succeeded by another Kew man, Mr. A. A. Black. He, unfortunately, was in poor health, and on his resignation in October 1865, Mr. New was re-appointed, and held office until his death in August 1873. Since the Rendition of the Province in 1881, the Institution has been maintained by the Mysore State. His Highness' Government have shown much solicitude for the improvement of the gardens, which now cover an area of about 100 acres.

A large conservatory, the foundation stone of which was laid by His Royal Highness Prince Albert Victor of Wales, on the 30th November 1889, has recently been constructed at a cost of Rs. 75,000.

The following is a list of the officials who have had executive charge of the Lal-Bagh from the time of Tippu:—

Mahomed Ali. Darogah. Abdul Khader. do.	For more than half a century.
Serjeant Tomkins ? Overseer.	About six years.
Maistry Heera Lall.	1 year.
Mr. William New, Superintendent.	5 years.
Mr. A. A. Black. "	1 year and 10 months.
Mr. William New. "	Nearly 8 years.
Mr. M. W. Walker, assisted by Maistry Ramannah.	Acting Superintendent for 6 months.

The present Superintendent took over charge in March 1874.

J. C.

Glossary of the principal terms used in the following text.

Accrescent.—Mostly applied to the enlargement of the calyx when the other parts of the flower have decayed.

Achlamydeous.—Without an envelope, when the sexes have no covering.

Anisomerous.—Want of symmetry in the flower.

Anther.—The terminal part of a stamen containing the pollen grains.

Berry.—A succulent and indehiscent fruit such as the grape.

Bract.—A minute leaf at the base of a flower-bud.

Calyx.—The outer whorl (envelope) of a flower, usually colored green.

Capitate.—Having a rounded head.

Carpel.—The modified leaf which forms the pistil, or contributes to its formation.

Carpophore.—The stalk of a fruit.

Catkin.—A slender drooping inflorescence, somewhat resembling a cats tail.

Clavate.—Formed like a club.

Coccus.—A dehiscent (free) carpel containing one seed.

Compound.—Of more than one piece, applied to divided leaves having pinnate, digitate, or pedate leaflets.

Cone.—The scaly fruit of a pine or fir tree.

Coriaceous.—Leathery.

Corolla.—The inner envelope of a flower, usually the most attractive part.

Corona.—A rayed or cup-like whorl situated within the corolla

Cyme.—A form of inflorescence, being a flattened and centrifugal panicle.

Deciduous.—Falling off, applied to such plants as shed their leaves annually.

Dehiscent.—Splitting open, as in the case of many hard fruits.

Dicotyledon.—A great division of plants having two cotyledons in the seed, as in the pea.

Didynamous.—Having two long and two short stamens.

Diœcious.—Having male flowers exclusively on one plant and female flowers exclusively upon another.

Discoid.—In the form of a disc, a circular cushion with a thin, flat, or convex surface.

Drupe—A stoned fruit like the mango, and peach.

Entire.—When the margin of a leaf is uniformly rounded and nowhere indented.

Epiphyte.—A plant growing upon another plant but deriving its nourishment independently; many orchids are epiphytes.

Filament.—The stalk of a stamen.

Follicle.—A capsular form of fruit dehiscing by the ventral suture.

Free.—Solitary, not united.

Fruit.—The seed-vessel of a plant.

Fusiform.—Spindle-shaped and tapering at both ends.

Gamopetalous.—Having the petals wholly or partially united.

Geminate.—Produced in pairs.

Gland.—A wart-like swelling found on some plants.

Glume.—The dry scaly leaves that subsequently become the husk of corn and other grains.

Gymnosperm.—Applied to such plants as produce naked ovules and seeds.

Gynandrous.—Having the stamens and pistil on the same axis, (column) as in the Orchideæ.

Gynophore.—The stalk of an ovary.

Hermaphrodite.—Having both sexes within a single flower.

Hypogynous.—Having the stamens inserted upon the receptacle below the pistil.

Imbricate.—Having the parts overlaying each other like the scales of a cone.

Incompletæ.—Denoting the absence of a floral envelope.

Indefinite.—Unlimited and irregular in number.

Introrse.—Anther opening towards the pistil.

Inferior.—When one organ is placed under another, but has special reference to the relative position of calyx and pistil; the opposite of superior.

Involucre.—A whorl of small leaves at the base of an inflorescence, as under the 'flower head' in Compositæ.

Irregular.—Parts of the flower being unequal in form and size.

Isomerous.—When each whorl of the flower is composed of an equal number of parts.

Legume.—A fruit of the Leguminosæ, a pea pod.

Membranous.—Thin, and more or less transparent.

Monadelphous.—Having the filaments united into a staminal tube around the style, as in Malvaceæ.

Monochlamydeous.—When the perianth is single.

Monocotyledon.—A great division of plants having but one seed-lobe, (cotyledon) as in the grasses.

Monœcious.—When unisexual flowers are borne together on the same individual.

Node.—The point on a shoot where the leaf is given off, the intervening spaces being called internodes.

Opposite.—Applied mostly to leaves when two are given off from a single node, and opposite to each other.

Ovary.—The lower part of the pistil containing the ovules.

Ovule.—The embryo seed.

Panduriform.—Shaped like a fiddle.

Panicle.—A branching inflorescence resembling that of corn, and the mango tree.

Parasite.—A plant that grows and lives upon another plant.

Parietal.—Has reference to the position of the placenta within the ovary.

Pedicel.—The final stalk of an inflorescence which supports a single flower.

Peduncle.—The primary stalk of an inflorescence, or the stalk of a solitary flower.

Persistent.—Usually applied to the calyx when it adheres to the fruit.

Petal.—A part of the corolla.

Petiole.—The stalk of a leaf.

Pinnate.—A feathered leaf (compound.)

Pistil.—The female organ of the flower.

Placenta.—That part of the carpel which bears the ovule.

Polyadelphous.—Having filaments united into several bundles.

Polygamous.—Bearing hermaphrodite and unisexual flowers on the same plant.

Polypetalous.—Having the petals free and distinct.

Peltate.—Sheild-like, a leaf attached to its petiole within the margin, as in the sacred lotus.

Perianth.—A general term for the floral envelopes, but correctly applied when the latter are the same in size and texture, or when one is wanting.

Raceme.—A form of inflorescence where the flowers are borne on pedicels along a single peduncle.

Radical.—Applied to leaves growing from the root-stock.

Receptacle.—The end of the peduncle, or pedicel, on which the flower is seated.

Regular.—Having all the parts equal in size and form.

Sepal.—A part of the calyx.

Sessile.—Without a stalk.

Siliqua.—The capsular fruit of Cruciferæ.

Simple.—In one piece, undivided.

Spathe.—A large membranous leaf forming a sheath to the inflorescence in Aroideæ.

Stamen.—The male organ of the flower.

Stigma.—The point of the pistil, usually rounded or flattened.

Stipule.—A small leaf at the base of proper leaves.

Style.—The axis which connects the ovary with the stigma.

Superior.—A term denoting the position of the ovary in respect to the calyx, the opposite of inferior.

Symmetrical.—Uniformity in the number of parts, the latter being equal to, or some multiple of, each other.

Syngenesious.—When the anthers unite and form a ring around the style.

Terminal.—At the very end.

Tetradynamous.—Having four long stamens and two short ones, as in the Cruciferæ.

Trimerous.—Having the parts of the flower in three's, or somo multiple of that number.

Unisexual.—Sexes separated.

Umbel.—The kind of inflorescence prevailing in Umbelliferæ, which see.

Utricle.—A membranous one-seeded fruit.

Verticillate.—Arranged in a circle like the rays of a wheel.

Whorl.—Usually applied to the parts forming the successive circles of the flower.

ABBREVIATIONS AND SIGNS.

The abbreviated names of botanical authorities are attached to genera and species. Linn. (Linnæus.) D. C. (Decandolle.) Hook. (Hooker) are examples of such.

C	Climbing or creeping plants.
H	Herbaceous plants—usually perennial.
⊙	Plants of annual duration.
A	Aquatic plants.
S	Shrubby plants—usually hard wooded.
US	Under-shrubs.
FL	Flower.

When two signs are used together they imply the double meaning, as ⊙ A, annual aquatic.

CATALOGUE.

CLASS I.—DICOTYLEDONS.

ORDER I.

RANUNCULACEÆ.

THE CROWFOOT FAMILY.

This Order is represented in Mysore by the tribe *Clematideæ*, of which several species are found wild. Typical specimens of the family are rare in the south of India, but may be occasionally found in gardens at hill stations. Larkspur is not uncommon in local cultivation. Properties tending to narcotico—acrid, and often poisonous.

1 Clematis, LINN. *Virgins Bower.*

1 Gouriana, Roxb. INDIA. ○ Fl. creamy white.
2 triloba, Heyne. INDIA. ○ Fl. white.
3 Duchess of Edinburgh. HORT. ○ Fl. purple
4 Wightiana WALL INDIA ○
5 Species. Introduced. Flowers large white.

2 Naravelia. DC.

1 zeylanica, DC. CEYLON. ○ Fl. yellow.

3 Thalictrum, LINN. *Meadow Rue.*

1 species, foliolosum (?) DC. ☒ Fl. creamy-white

4 Delphinium, LINN. *Larkspur.*

1 Ajacis, Linn. S. EUROPE. ⊙ Fl. purple.
2 consolida, Linn. S. EUROPE. ⊙ Fl. purple and white.

5 Nigella, W. *Fennel Flower.*

1 damascena, W. S. EUROPE. ⊙ Fl. blue.
2 hispanica, S. EUROPE ⊙ Fl. blue.

6 Aquilegia, Linn. *Columbine.*

1 vulgaris Linn. EUROPE AND ASIA ♃ Fl. purple.
2 „ var. Fl. white.

ORDER II.

DILLENIACEÆ.

A family of trees shrubs and herbs mostly confined to the tropics. Several species of *Dillenia* are elegant trees for scenic planting. They also afford an acid fruit which may be used in tarts and jellies. No. 2 is a good type of the Order.

1 Delima, LINN.

1 sarmentosa, Linn. INDIA. ♁ Fl. white.

2 Dillenia, LINN.

1 indica, Linn. INDIA. ♄ Fl. white. *Kan.* Bettada ganagalu mara. ಬೆಟ್ಟದ ಗಣಗಲುಮರ.

2 bracteata, Wight. ♄ *Kan.* Bettada kanigala mara. ಬೆಟ್ಟದ ಕಣಿಗಲಮರ.

3 pentagyna, Roxb. ♄ *Kan.* Kóltéga or kâḍu kanigalu mara. ಕೋಲ್ತೆಗ (ಕಾಡುಕಣಿಗಲ) ಮರ.

3 Candollea, LABIL.

1 cuneiformis, Labil. W. AUST. ♄

ORDER III.

MAGNOLIACEÆ.

THE MAGNOLIA FAMILY.

The indigenous 'Sampage' is an excellent type of this family, which is characterised by its large and highly perfumed flowers. There are no herbs in the Order. *Sepals* and *petals* trimerous. *Stamens* numerous.

1 Magnolia, LINN.

1 grandiflora, Linn. CAROLIN. ⊤ Fl. large white.
2 sphenocarpa, Roxb. INDIA. ⊤ Fl. white.
3 pumila, W. CHINA. s Fl. white.

2 Michelia, LINN.

1 champaca, Linn. INDIA. ⊤ Fl. yellow. *Kan.* Sampage mara. ಸಂಪಗೆ ಮರ.

2 nilagirica, Zenk. INDIA and CEYLON. ⊤ Fl. white.

ORDER IV.

ANONACEÆ.

CUSTARD APPLE FAMILY.

The sweet-sop and custard-apple trees are naturalised in most parts of India, and are more commonly seen than the indigenous representatives of the family. The Cherimoyer is highly esteemed as a fruit in its native habitat. Nos. 3, 4 and 6, are typical genera.

1 Uvaria, LINN.

1 narum, Wall. ○ INDIA. Fl. dull reddish-green.
2 species? ⊤ INDIA. Fl. reddish-purple.

2 Artabotrys, R. Br.

1 odoratissimus, R. Br. India. s Fl. greenish-yellow. Fragrant. *Kan.* Manóranjan balli. ಮನೋರಂಜನ ಬಳ್ಳಿ.

3 Polyalthia, Blume.

1 longifolia, Benth & H. Trop. India. T Fl. green. *Kan.* Puttrajivi mara. ಪುತ್ರಜೀವಿಮರ.

2 cerasoides, Benth. T India. Fl. green.

4 Anona, Linn.

1 squamosa, Linn. *Sweet-sop.* W. Indies. T *Kan.* Duranji mara. ದುರಂಜಿ ಮರ.

2 reticulata, Linn. *Bullocks-heart.* W. Indies. T *Kan.* Rámaphala mara. ರಾಮಫಲ ಮರ.

3 muricata, Linn. *Sour-sop.* W. Indies. T *Kan.* Mullu Rámaphala mara. ಮುಳ್ಳುರಾಮ ಫಲಮರ.

4 Cherimolia, Mill. *Cherimoyer.* S. Amer. T Fl. greenish-yellow.

5 montana, Trop. Amer. T

5 Miliusa, Lesch.

1 indica, Lesch. India. s Fl. greenish-purple.

6 Saccopetalum, Bennett.

1 tomentosem, H. F. & T. India. T *Kan.* Kari hesare mara. ಕರಿ ಹೆಸರೆಮರ.

Order V.

MENISPERMACEÆ.

COCCULUS OR MOONSEED FAMILY.

A tropical Order of climbing plants having small unisexual flowers of trimerous symmetry. Seeds formed

like a crescent or horse-shoe. Many of the plants are narcotic and some are poisonous.

1 Tinospora, MIERS.

1 cordifolia, Miers. INDIA. c Fl. yellow.

2 Anamirta, COLEBROOK.

1 cocculus, W. and A. India. c Fl. greenish—yellow.

3 Cocculus, D. C.

1 villosus, D. C. India. c *Kan.* Sugadi gida, ಸುಗಂಧಿಗಿಡ.

ORDER VI.

BERBERIDEÆ.

THE BARBERRY FAMILY.

The Indian plants of this Order are almost exclusively confined to the Himalaya, and their cultivation here is next to impossible.

1 Berberis, LINN.

1 vulgaris folius atropurpureus, W. HIMALAYA. s

2 Nandina, Thunb.

1 domestica, Thunb. China. s Fl. white.

ORDER VII.

NYMPHÆACEÆ.

WATER LILY FAMILY.

These aquatic herbs are well known by their handsome flowers, which are red, white, rose, and blue in

colour. The *Victoria Regia* is the most remarkable plant of the family, but it succeeds better on the plains than at this elevation. Examine species of Nos. 1 and 2.

1 Nymphæa, Linn.

1 alba, Linn. *White Water Lily.* Asia. ⚘ *Kan.* Bili távare, ಬಿಳಿದಾವರೆ.
2 Lotus, Linn. *Egyptian Lotus.* India. ⚘ *Kan.* Kempu távare. ಕೆಂಪುದಾವರೆ.
3 stellata, Willd. *Blue Water Lily.* India. ⚘

2 Nelumbium, Juss.

1 speciosum, Willd. *Sacred Lotus.* India. ⚘ Fl. rose and white. *Kan.* Kamala. ಕಮಲ.

3 Victoria,

1 Regia, Schomb. *Amazon Lily.* S. Amer. ⚘

Order VIII.

PAPAVERACEÆ.

THE POPPY FAMILY.

The indigenous species are confined to the north of India. But the introduced 'Mexican Poppy' is a familiar object all over the south. Other forms are cultivated.

1 Papaver, Linn.

1 somniferum, Linn. *Opium Poppy.* India. ⊙ *Kan.* Gasagase gida. ಗಸಗಸೆಗಿಡ.
2 Rhœas, Linn. *Corn Poppy.* Europe. ⊙
3 dubium, Linn. *Long-headed Poppy.* Eur&India
4 orientale, Linn. *Garden Poppy.* Levant. ♃
5 Argemone, Linn. Europe. ⊙

2 Argemone, LINN. *Mexican Poppy.*

1 Mexicana, Linn. MEXICO. ⊙ Fl. yellow. *Kan.* Dattúra gida. ದತ್ತೂರಗಿಡ.

ORDER IX.

FUMARIACEÆ.

THE FUMITORY FAMILY.

A small Order of smooth herbs having scentless flowers. The plant named below is a weed of garden land.

1 Fumaria, LINN.

1 parviflora, Lamk. *Fumitory.* EUROPE & INDIA. ⊙ Fl. rosy-purple. *Kan.* Kádu sabbasige soppu. ಕಾಡುಸಬ್ಬಸಿಗೆಸೊಪ್ಪು.

ORDER X.

CRUCIFERÆ.

THE CRUCIFER FAMILY.

In Mysore, this important and well defined Order of herbs is almost wholly represented by the European vegetables in market gardens. But some of the latter are quite naturalised and indispensable. *Ex.* country radish. Note the tetradynamous stamens, and also the capsular fruit (*siliqua*) dehiscing by two valves from the base upwards. See plants with vernacular names.

1 Matthiola, BR.

1 annua, Br. *Ten-week Stock.* EUROPE. ⊙
2 incana, Br. *Common Stock.* EUROPE. ⊙ Fl. white to purple. Fragrant.

2 Cheiranthus, LINN.

1 Cheiri, Linn. *Wallflower.* BRITAIN. ⊙ Fl. various. Fragrant.

3 Nasturtium, BR.

1 officinale, Br. *Water Cress.* TEMP. EUROPE. ♃ Fl. white.
2 indicum, D. C. *A weed.* INDIA. ⊙ Fl. yellow.
3 palustre, D. C. INDIA. ♃ Fl. yellow. *Kan.* Kádusásive gida. ಕಾಡುಸಾಸಿವೆಗಿಡ.

4 Cardamine, LINN. *Cuckoo Flower.*

1 hirsuta, Linn. INDIA. ⊙ Fl. white.

5 Malcolmia, BR. *Virginian Stock.*

1 maritima, Br. EUROPE. ⊙ Fl. white.

6 Coronopus, SMITH.

1 didyma, Sm. ENGLAND. ⊙

7 Erysimum, LINN.

1 heiraciifolium, Linn. EUROPE. & INDIA. ♃
2 Peroffskianum, Fch. *Blistering Cress.* CALIFORNIA. ⊙

8 Brassica, LINN.

1 campestris, Linn. *Swedish Turnip.* N. EUROPE. ♃ Fl. yellow.
2 Napus, Linn. *Rape, or Coleseed.* N. EUROPE. ⊙ Fl. yellow.
3 Rapa, Linn. *Common Turnip.* N. EUROPE. ♃ Fl. yellow.
4 juncea, H. F. & T. *Indian Mustard.* INDIA. ⊙ Fl. yellow. *Kan.* Sásive. ಸಾಸಿವೆ.
5 oleracea, Linn. *Cabbage.* BRITAIN. ⊙ *Kan.* Mudde kósu. ಮುದ್ದೆಕೋಸು.
6 Nigra. Koch. *Common Mustard.* EUROPE. Fl. yellow. *Kan.* Kari Sásive gida. ಕರಿಸಾಸಿವೆಗಿಡ.

7 alba, Linn. *White Mustard.* ⊙ *Kan.* Bili sásive gida. ಬಿಳಿ ಸಾಸಿವೆ ಗಿಡ.

9. Capsella, Mœnch.

1. Bursa-pastoris, Mœnch. *Shepherds Purse.* Eur. ⊙ Fl. white.

10. Lepidium, Linn.

1 sativum, Linn. *Garden Cress.* E. Europe. ⊙ Fl. white. *Kan.* Kurtige gida. ಕುರ್ತಿಗೆ ಗಿಡ.

11 Iberis, Linn.

1 umbellata, Linn. *Candytuft.* Europe. ⊙ Fl. white and purple.

12. Raphanus, Linn.

1 sativus, Linn. *Radish.* Europe. ⊙ Fl. yellow white or lilac. *Kan.* Mullangi gadde. ಮುಲ್ಲಂಗಿ ಗಡ್ಡೆ.

Order XI.

CAPPARIDEÆ.

THE CAPER FAMILY.

A family closely allied to the crucifers; differing chiefly in habit, uniformity of staminal growth, (not being tetradynamous) and the stalked ovary. Herbs, climbing shrubs, and trees.

1 Cleome, Linn.

1 monophylla, Linn. India. ♃ Fl. dull purple.

2 viscosa, Linn. India. ⊙ Fl. yellow.
3 heptaphylla, Linn. W. Indies. ♃ Fl. purple.
4 speciosa ? Received under this name from Poona. ⊙ (Chelidonii ?) Fl. rose.

5 tenella, Linn. INDIA. ⊙ Fl. purple.
6 Burmannii W. & A. INDIA. ⊙ Fl. purple.

2 Gynandropsis, D. C.

1 pentaphylla, D. C. INDIA. ⊙ Fl. whitish purple. *Kan.* Nárambéle soppu. ನಾರಂಬೇಳೆ ಸೊಪ್ಪು.

3 Cratæva, LINN.

1 religiosa, Forst. *Caper Tree.* W. INDIA. ♄ Fl. yellow, changing to purple.

4 Cadaba, FORSK.

1 indica, Lamk. INDIA. S. Fl. greenish white. *Kan.* Maragáde gida. ಮರಗಾಡೆ ಗಿಡ.

5 Capparis, LINN.

1 sepiaria, Linn. INDIA. ○ s Fl. white. *Kan.* Kattiri gida: ಕತ್ತಿರಿಗಿಡ.
2 horrida, Linn. INDIA. ○ s Fl. white or purplish.
3 Mitchellii, Lindl. AUSTRALIA. ○ s
4 zeylanica, Linn. INDIA. ○ s Fl. white, changing to yellow and brown. *Kan.* Totla gida. ತೊಟ್ಲ ಗಿಡ.
5 Roxburghii, D. C. INDIA., ○ s Fl. white.
6 frondosa,

ORDER XII.

RESEDACEÆ.

THE MIGNONETTE FAMILY.

This small Order has no indigenous representative in southern INDIA.

1 Reseda, LINN.

1 odorata, Linn. *Mignonette.* EGYPT. ⊙ Fl. creamy or reddish brown.

ORDER XIII.

VIOLACEÆ.

THE VIOLET FAMILY.

Violets and pansies succeed fairly well in local cultivation. *Ionidium suffruticosum* holds an important place among native drugs.

1 Viola, LINN.

1 odorata, Linn. *Sweet Violet.* EUROPE. H Fl. violet.
2 tricolor, Linn. *Heartsease.* EUROPE. H Fl. various.

2 Ionidium, VENTENAT.

1 suffruticosum, GING. INDIA. H Fl. red. *Kan.* Purusharatna soppu. ಪುರುಷರತ್ನ ಸೊಪ್ಪು.

ORDER XIV.

BIXINEÆ.

THE ANNATTO FAMILY.

An Order of trees and shrubs mostly confined to the tropics. Numbers 1 and 2 have handsome flowers the structure of which is highly typical of the family, although more conspicuous than in most species. The leaves are always alternate and simple.

1 Cochlospermum, KUNTH.

1 gossypium, DC. INDIA. T Fl. yellow. *Kan.* Arisina búruga mara. ಅರಿಸಿನಬೊರುಗ ಮರ.

2 Bixa, LINN.

1 Orellana, Linn. *Annatto.* S. Amer. S Fl. rose or

purple. *Kan.* Rangumàle gida. ರಂಗುಮಾಲೆಗಿಡ.
2 Orellana var. alba, Dalz in Bombay Flora. s

3 Flacourtia, Commers.

1 sepiaria, Roxb. India. s Fl. pale yellow. *Kan.* Miridi gida. ಮಿರಿಡಿ ಗಿಡ. The fruit is much eaten.
2 species, From Ceylon. Unarmed. T Fl. yellow.
3 inermis, Roxb. India. T *Kan.* Obblu mara. ಉಬ್ಬು ಮರ.

4 Gynocardia, R. Br.

1 odorata, R. Br. India. Fl. yellowish. The seeds of this tree yield, by expression, the valuable chalmugra oil.

5 Hydnocarpus, Gærtner.

1 Wightiana, Blume. W. India. Fl. white.

Order XV.

PITTOSPOREÆ.

THE PITTOSPORUM FAMILY.

An Australian Order of trees and woody climbing shrubs. The genus *Pittisporum* is represented in the cooler parts of India. *Leaves* alternate or subverticillate, exstipulate, simple, and usually entire. *Flower* in parts of five. *Ovary* superior, one-celled. *Stigmas* 2—5 or equal to the placentas. *Seeds* numerous.

1 Pittosporum, Banks.

1 Tobira, fol. variegata. s
2 revolutum, Ait. E. Austr. s
3 undulatum, Vent. E. Austr. s
4 floribundum, W. & A. Hills of India T Fl. yellow.

2 Billardiera, Sm.

1 species. From Australia. ○

3 Bursaria, Cav.

1 spinosa, Cav. Austr. ⊤ Fl. white. Fragrant.

4 Hymenosporum, F. Muell.

1 flavum, F. Muell. E. Austr. ⊤ Fl. white.

5 Sollya, Lindl.

1 salicifolia, Lindl. W. Austr. s

Order XVI.

POLYGALEÆ.

THE MILKWORT FAMILY.

Excluding New-Zealand, this is a cosmopolitan Order of herbs, shrubs, and trees. The flowers, in the herbaceous section especially, are irregular, and at first sight may be mistaken for *Papilionaceæ*. The roots often contain a milky juice.

1 Polygala, Linn.

1 chinensis. Linn. India and China. ⊙
2 elongata, Klein. India. ⊙ Fl. yellow.
3 telephioides, Willd. India. ⊙

Order XVII.

CARYOPHYLLEÆ

THE PINK FAMILY.

Although a large cosmopolitan order of herbs, a glance at the annexed list will show that it has few native

representatives in this place; species are abundant in the northern regions of Europe and Asia. Often grass-like weeds with swollen nodes and inconspicuous flowers. The various strains of pinks do well at Bangalore.

1 Dianthus, LINN.

1 chinensis, Linn. *Chinese Pink.* CHINA. ⊙
2 Heddewigii, Regl. *Japanese Pink.* JAPAN. ⊙
3 plumarius, Linn. *Common Pink.* EUROPE. ♃
4 Caryophyllus, Linn. *Clove Carnation.* S. EUROPE. ♃
5 Carthusianorum, Linn. *Sweet-William.* EUROPE. ♃

Fl. various.

2 Saponaria, LINN. *Soapwort.*

1 calabrica, Juss. CALABRIA. ⊙ Fl. pink.

3 Silene, LINN. *Catchfly.*

1 pendula, Linn. SICILY. ⊙ Fl. rose.
2 Armeria, Linn. EUROPE. ⊙ Fl. rose and white.
3 quinquevulnera, Linn. EUROPE. ⊙ Fl. rosy-purple.
4 schafta, Caucasus ⊙ Fl. rosy-purple.

4 Lychnis, LINN. *Campion.*

1 chalcedonica Linn. LEVANT. ♃ Fl. scarlet.
2 grandiflora, ♃ Fl. coppery-orange.

5 Cerastium, LINN. *Chickweed.*

1 indicum, W. and A. *Indian Chickweed.* ♃ Fl. white.
2 vulgatum, Linn. INDIA. ⊙ Fl. white.

6 Stellaria, LINN.

1 media, Linn. A weed. INDIA. ♃ Fl. whitish.

7 Polycarpæa, LAMK.

1 corymbosa, Lamk. A weed. INDIA. ⊙ Fl. silvery-white.
2 " var. aurea. ⊙ *Kan.* Majjege soppu. ಮಜ್ಜಿಗೆಸೊಪ್ಪು.

ORDER XVIII.

PORTULACEÆ.

THE PURSLANE FAMILY.

A scattered Order of herbs, or rarely under-shrubs. Chiefly American. The *Portulaca splendens* of gardens is an attractive bedding plant during the dry season.

1 Portulaca, LINN. *Purslane.*

1 oleracea, Linn. Native weed. ⊙ Flower yellow. *Kan.* Dodda góni soppu. ದೊಡ್ಡ ಗೋಣಿಸೊಪ್ಪು.
2 quadrifida, Linn, INDIA. ⊙ Fl. yellow.
3 splendens, Hort. CHILI. ⊙ Fl. deep crimson, purple, and various.
4 grandiflora, CHILI. ⊙ Fl. various.

2 Calandrinia, HUMB. & BONPL.

1 grandiflora Lindl. CHILI. ♃ Fl. red.

ORDER XIX.

TAMARISCINEÆ.

THE TAMARIX FAMILY.

This small Order has only one representative in Mysore. It is occasionally found on the banks of streams, and in general appearence reminds one of a very stunted *Casuarina.*

1 Tamarix, LINN.

1 gallica, Linn. INDIA & MEDITERRANEAN REGION. ♄ Fl. whitish.

ORDER XX.

HYPERICINEÆ.

THE ST. JOHNS-WORT FAMILY.

The typical species given under this family is common at Nundidroog, where it will be readily observed by a profuse display of very bright yellow flowers.

1 Hypericum, LINN.

1 mysorense, Heyne. INDIA. s *Kan.* Chinnadávare gida. ಚಿನ್ನದಾವರೆ ಗಿಡ.

ORDER XXI.

GUTTIFERÆ.

THE GAMBOGE FAMILY.

A well defined tropical family of trees and shrubs. It is represented in Mysore, as in other parts of India, by six genera. *Leaves* opposite, simple, and often leathery in texture. *Flowers* regular, unisexual or polygamous, often sweetly fragrant. *Pœciloneuron indicum* is the 'Ballagi mara' from which the celebrated walking sticks are made. Dissect specimens of 1, 3 and 4.

1 Garcinia, LINN.

1 Livingstonii. From CALCUTTA. T Fl. white.
2 Morella, Desrouss. INDIA. T *Kan.* Kankutgal mara. ಕಣ್ಕುಟಗಲ್ ಮರ.
3 Xanthochymus Hook. f. INDIA. T *Kan.* Dévagarige mara. ದೇವಗರಿಗೆ ಮರ.
4 Mangostana, Linn. Malay Arch. *Mangosteen.* T Fl. yellow-red.

2 Ochrocarpus, Thouars.

1 longifolius, Benth and Hook. India. ☿ Fl. rosy-purple. *Kan.* Surgi mara. ಸುರ್ಗಿ ಮರ.

3 Calophyllum, Linn.

1 inophyllum Linn. India. *Pinnay Oil Tree.* ☿ Fl. white, anthers yellow. *Kan.* Surahonne mara. ಸುರಹೊನ್ನೆ ಮರ.

2 tomentosum, Wight. India. *The Poon Tree.* *Kan.* Kúve or bobbi mara. ಕೂವೆ(ಬೊಬ್ಬಿ) ಮರ.

4 Mesua, Linn.

1 ferrea, Linn. India. ☿ Fl. white, anthers yellow. *Kan.* Nágasampige mara. ನಾಗಸಂಪಿಗೆ ಮರ.

5 Pœciloneuron, Beddome.

1 indicum, Bedd. India. ☿ Fl. yellowish-white. *Kan.* Ballagi mara. ಬಲ್ಲಗಿ ಮರ.

6 Clusia, W.

1 rosea, W. Carolina. *Balsam Tree.* ☿ Fl. rose.

Order XXII.

TERNSTRŒMIACEÆ.

THE TEA FAMILY.

Indigenous representatives of the family are wholly confined to the cooler parts of India. The tea plant and the *Camellia japonica*, are profitably cultivated at Ootacamund.

1 Camellia, Linn.

1 japonica, Linn. ♂ Japan. Fl. white and pink.
2 theifera, Griff. Assam. *Tea Shrub.* Fl. white.

ORDER XXIII.

DIPTEROCARPEÆ.

THE MALAY-CAMPHOR FAMILY.

A tropical family of resinous trees, or rarely climbing shrubs. The persistent calyx with two or more segments much enlarged in fruit is characteristic of the Order.

1 Shorea, ROXB.

1 talura, Roxb. *The Lac Tree.* MYSORE. ☥ Fl. white. *Kan.* Jálári mara. ಜಾಲಾರಿ ಮರ.
2 robusta, Gaertn. *The Sal Tree.* INDIA. ☥ Fl. pale yellow.

2 Hopea, ROXB.

1 parviflora, BEDD. INDIA. ☥ *Kan.* Bóghi or Kiral Bóghi mara. ಬೋಗಿ (ಕಿರಲ್ಬೋಗಿ) ಮರ.
2 Wightiana, Wall. INDIA. ☥ *Kan.* Oonni mara. ಉನ್ನಿ ಮರ.

3 Vateria indica, LINN. *Indian Copal Tree.* Fl. white. *Kan.* Dúpada mara. ಧೂಪದ ಮರ.

ORDER XXIV.

MALVACEÆ.

THE MALLOW FAMILY.

This well marked Order of herbs, shrubs, and trees is abundantly represented in India, both in cultivation and habitat. Showy flowers, monadelphous stamens, and one-celled anthers make up the chief characters of the family. The well known shoe-flower, the various cotton plants, and the popular vegetable "Bendekayi" are good types for botanical students. But with the above, species of *Malva* and *Bombax* should be compared.

1 Althæa, LINN.

1 rosea, Linn. *Holly-hock.* ⊞ Fl. rose. *Kan.* Dodda bindige. ದೊಡ್ಡ ಬಿಂದಿಗೇ ಗಿಡ.

2 officinalis, Linn. *Marsh Mallow.* EUROPE. ⊞ Fl. rose.

2 Lavatera, LINN. *Tree Mallow.*

1 thuringiaca, Linn. GERMANY. ⊞ Fl. rosy-pink. 4 ft.

3 Malva, LINN. *Mallow.*

1 sylvestris, Linn. EUROPE. ⊞ Fl. white. *Kan.* Sanna bindige gida. ಸಂಣ್ಣ ಬಿಂದಿಗೆ ಗಿಡ.

2 rotundifolia, Linn. EUROPE, W. ASIA. ⊞

3 parviflora, Linn INDIA. ⊞

4 Malvastrum, A. GRAY.

1 tricuspidatum, A. GRAY. Tropics. ⊞ Fl. yellow.

2 spicatum, A. GRAY. Tropics. ⊞ Fl. yellow.

5 Sida, LINN.

1 mysorensis, W. and A. Native weed. ⊞ Fl. pale yellow.

2 rhombifolia, Linn. do ⊞ Fl. yellow.

3 cordifolia, Linn. do Fl. yellow. ⊞ *Kan.* Hettu tutti gida. ಹೆತ್ತು ತುತ್ತಿ ಗಿಡ.

4 humilis, Willd do ⊞ Fl. straw—coloured.

5 carpinifolia, L. INDIA. s Fl. yellow.
" var. acuta, " s *Kan.* Bhimana kaddi. ಭೀಮನ ಕಡ್ಡಿ.

6 grewioides, Guill. INDIA. s Fl. yellow.

7 species? INDIA. s Fl. white. *Kan.* Bekkina tale gida. ಬೆಕ್ಕಿನ ತಲೆ ಗಿಡ.

6 Abutilon, Gaertn.

1 asiaticum, G. Don. Asia. s Fl. yellow.

2 indicum, G. Don. India. s *Kan.* Tutti gida. ತುತ್ತಿ ಗಿಡ. Fl. yellow.

3 graveolens, W. and A. India. s Fl. orange with dark centre.

4 muticum, G. Don. India. s Fl. orange.

5 polyandrum, Schlecht. India. s Fl. orange. *Kan.* Bettada bendu gida. ಬೆಟ್ಟದ ಬೆಂಡು ಗಿಡ.

6 striatum, var. Thomsonii. Fl. yellow. s

Garden varieties.—Amrantina. Fl. purple—amaranth.
Elephanta. Fl. chamois-yellow shaded rose.
Brilliant. Fl. bright red.
M. Ed. Pynært Vangeert. Fl. purplish-carmine.
M. Viviand-Morel. Fl. violet-amaranth.
Louise Deloux. Fl. white.
Aurelia. Fl. golden-yellow.
Blandii. Fl. deep yellow, veined crimson.
Albert Deloux. Fl. rosy-mauve.
Clochette Tleuric. Fl. violet-amaranth.
Eveline. Fl. blush, shaded pink.
Couquete. Fl. whitish-rose.

7 Malachra, Linn.

1 capitata, Linn. W. Trop Africa. s Fl. yellow. This undershrub appears to be an escape from cultivation in some parts of India.

8 Urena, Linn.

1 lobata. Linn. Yields good fibre. India. s Fl. pink.

2 sinuata, Linn. India. s Fl. pink.

9 Pavonia, Cav.

1 odorata, Willd. India. H Fl. pink.

2 zeylanica, Cav. India. s *Kan.* Antu togari gida. ಅಂಟು ತೊಗರಿಗಿಡ.

10 Decaschistia W. & A.

1 trilobata Wight. INDIA. s
2 crotonifolia, W. and A. INDIA. s Fl. pink.

11 Hibiscus, MEDIK.

1 canescens, Heyne in Wall. INDIA. s Fl. yellow, with pink centre.
2 cannabinus, Linn. *Hibiscus Hemp.* INDIA. s Fl. yellow with crimson centre. *Kan.* Holada pundrike gida. ಹೊಲದ ಪುಂಡ್ರಿಕೆ ಗಿಡ.
3 surattensis, Linn. *Prickly stemmed.* ASIA. ♃ Fl. yellow with dark centre.
4 Sabdariffa, Linn. *The Rozelle.* INDIA. ⊙ Fl. yellow. *Kan.* Kempu pundrike gida. ಕೆಂಪು ಪುಂಡ್ರಿಕೆ ಗಿಡ.
5 ficulneus, Linn. Yields good fibre. INDIA. ⊙ Fl. white with rosy centre. *Kan.* Kadu bende gida. ಕಾಡು ಬೆಂಡೇಗಿಡ.
6 rugosus, Mast. INDIA. ⊙ Fl. yellow with red centre.
7 esculentus, Linn. *Okra.* W. INDIES. ⊙ *Kan.* Bende gida. ಬೆಂಡೇಗಿಡ. Fl. yellow with crimson centre.
8 tricuspis, Banks in Cav. SOCIETY ISLES. ♃ Fl. yellow with purple base.
9 rosa-sinensis, Linn. *Shoe-flower.* s *Kan.* Dasala gida. ದಾಸಾಳದ ಗಿಡ.

10 do. var. alba plenus s
11 do „ rubro—plenus. s
12 do „ flavo—plenus. s
13 do „ carneo—plenus. s
14 do „ lilliflorus hybridus. s
15 do „ Cooperii. s

} It is unfortunate that these fine flowering shrubs rarely produce seed at Bangalore.

16 mutabilis, Linn. CHINA. s Fl. white, changing to red.

17 do var. fl. pleno. s do. do.
18 syriacus, Linn. *Syrian Hibiscus.* s
19 tiliaceus, Linn. SEA SHORES OF TROPICS. T Fl. yellow with crimson centre.
20 pandurræformis, Burm. INDIA. ⊙ Fl. yellow with purple centre. *Kan.* Kadu gandu tutti gida. ಕಾಡು ಗಂಡು ತುತ್ತಿ ಗಿಡ.
21 Schizopetalus, E. Africa. s Fl. red.
22 species. An annual or biennial shrub. s Fl. pale yellow.
23 furcatus, Roxb. INDIA. s Fl. yellow with purple eye and crimson centre.

12 Paritium, ADR. JUSS.

1 elatum, W. INDIES. T Fl. orange-crimson. Affords the material called *Cuba bast.*

13 Thespesia, CORR.

1 Lampas, Dalz. and Gibs. INDIA. T Fl. yellow with crimson centre.
2 populnea. Corr. *Portia tree.* SOCIETY ISLES. T Fl. yellow. *Kan.* Huvarasi mara. ಹೂವರಸಿಮರ.

14 Gossypium, LINN.

1 herbaceum, Linn. *Indian Cotton.* s Fl. mostly yellow with purple centre. *Kan.* Arale or anji gida. ಅರಳೆ (ಅಂಜಿ) ಗಿಡ.
2 „ var. religiosum, *Nankeen Cotton.* s Fl. yellow, cotton tawny.

The cottons known as Hinginghaut, Dacca, Berar, Upland Georgian and China, are produced from varieties of the species *herbaceum.*

3 Barbadense, Linn. *American Cotton.* s Fl. yellow with crimson centre.
4 „ var. acuminatum, Roxb. *Peruvian Cotton.* s Fl. yellow with crimson centre.

G. Barbadense affords the cottons known as Barbadoes, Bourbon, New Orleans and Sea-Island, etc.

5 arboreum, Linn. *Tree Cotton.* INDIA. Fl. dark crimson or purple. *Kan.* Kari arale or anji gida. ಕರಿಅರಳೇ (ಅಂಜಿ) ಗಿಡ.

15 Kydia, ROXB.
1 calycina, Roxb. INDIA. ☥ Fl. white or pink. *Kan.* Bende naru mara. ಬೆಂಡೆ ನಾರು ಮರ.

16 Adansonia, LINN.
1 digitata, Linn. *The Baobab.* AFRICA. ☥

17 Bombax, LINN.
1 malabaricum, DC. Yields silk cotton. ☥ Fl. red. *Kan.* Kempu Buruga mara. ಕೆಂಪು ಬೂರುಗ ಮರ.

18 Eriodendron, DC.
1 anfractuosum, DC. INDIA. ☥ Fl. white. Yields silk cotton. *Kan.* Bili buruga mara. ಬಿಳೀ ಬೂರುಗ ಮರ.

19 Lagunaria, G. DON.
1 Pattersonii, G. Don. E. AUSTR. ☥

20 Durio, LINN.
1 zibethinus, DC. Malay Islands. *The Durian Tree.*

ORDER XXV.

STERCULIACEÆ.

THE CHOCOLATE TREE FAMILY.

The structural arrangement of this large family of trees, shrubs and herbs, is closely allied to that of Malvaceæ. It is clearly separated, however, by its 2-celled anthers, The flowers are often unisexual by abortion,

and occasionally irregular as in the screw tree, *Helicteres Isora*. Students should compare the latter with any *Sterculia*, and also with the indigenous weeds *Pentapetes* and *Waltheria*.

1 Sterculia, LINN. The roasted seeds are edible.

1 fœtida, Linn. ASIA. ♄ Fl. orange red. *Kan.* Bhatala or penari mara. ಭಾತಾಳ (ಪೇನಾರಿ) ಮರ.

2 urens, Roxb. INDIA. ♄ Fl. yellowish. *Kan.* Kempu dale mara. ಕೆಂಪು ದಾಳೆ ಮರ.

3 villosa, Roxb. INDIA. ♄ Fl. rusty pink. *Kan.* Bili dale mara.

4 heterophylla, G. Don. E. AUSTR. ♄

5 Balanghas, Linn. INDIA. ♄ Fl. rusty brown.

6 alata, Roxb. INDIA. ♄ Fl. reddish.

7 populifolia, Roxb. INDIA. ♄

8 guttata, Roxb. INDIA. ♄ Fl. reddish purple.

2 Cola,

1 acuminata, W. Africa. *Kola Nut Tree.*

3 Heritiera, AITON.

1 littoralis, Dryand. *Looking Glass Tree.* ASIA. Fl. silvery white.

2 Fomes, Buch, BORNEO. ♄ Fl. orange.

4 Kleinhovia, Linn.

1 Hospita, Linn, MALACCA. ♄ Fl. rose to pink.

5 Helicteres, LINN.

1 Isora, Linn. *Indian Screw Tree.* Fl. red, changing to plumbago. *Kan.* Yedamuri gida. ಎಡಮುರಿ ಗಿಡ.

6 Pterospermum, SCHREB.

1 acerifolium, Willd. N. INDIA. ♄ Fl. white.

7. Eriolæna, DC.

1 Candollei, Wall. BIRMA. ♄ Fl. yellow.

8 Pentapetes, LINN.

1 phœnicea, Linn. PLAINS OF INDIA. ⊙ Fl. red.

9 Melhania, FORSK.

1 incana, Heyne, MYSORE. s Fl. yellow.
2 cannabina, Wight. MYSORE. s Fl. yellow.

10 Dombeya, CAV.

1 angulata, Cav. BOURBON. s Fl. rosy-pink shaded salmon.

11 Melochia, LINN.

1 velutina, Beddome. INDIA. T Fl. pink. *Kan.* Bettada tutti mara. ಬೆಟ್ಟದ ತುತ್ತಿ ಮರ.

12 Waltheria, LINN.

1 indica, Linn. Native weed. H Fl. yellow.

13 Abroma, JACQ.

1 augusta, Linn. Yields good fibre. MOLUCCAS. s Fl. purplish.

14 Gauzuma, PLUM.

1 tomentosa, Kunth. *Bastard Cedar.* TROP. AMERICA. T Fl. creamy-yellow. *Kan.* Rudrákshi mara. ರುದ್ರಾಕ್ಷಿ ಮರ.

15 Theobroma, LINN.

1 cacao, Linn. *Chocolate Tree.* S. AMERICA. Fl. whitish.

ORDER XXVI.

TILIACEÆ.

THE JUTE FAMILY.

Herbs, shrubs and trees. The indefinite, free, or more rarely polyadelphous stamens, afford the chief structural character of the Order, as compared with the two foregoing families, to which it is closely allied. The genus *Grewia* is well represented in the reserved jungle of Mysore, where some of the climbing species form dense thickets for the preservation of wild animals. The jute plant, *Corchorus capsularis*, is only found rarely in local cultivation.

1 Berrya, ROXB.

1 Ammonilla, Roxb. *Trincomalee Wood.* INDIA. T Fl. pink.

2 Grewia, LINN.

1 columnaris, Sm. ASIA. S Fl. white.
2 emarginata, W. and A. MYSORE. S Fl. whitish.
3 oppositifolia, Roxb. INDIA. T Fl. yellow. *Kan.* Butále mara ಬೂತಾಳೆಮರ.
4 tiliæfolia, Vahl. INDIA. T *Kan.* Tadasalu mara. ತಡಸಲು ಮರ.
5 asiatica, Linn. INDIA. T Fl. yellow.
6 pilosa, Lam. INDIA. S
7 lævigata, Vahl. INDIA. T Fl. yellow.
8 species, A tree. *Kan.* Jáne mara. ಜಾಣೆ ಮರ.
9 do A shrub. *Kan.* Wudipe gida. ಉಡಿಪೆ ಗಿಡ.

3 Triumfetta, LINN. Native weeds.

1 rhomboidea, Jacq. INDIA. S Fl. yellow.
2 rotundifolia, Lam. INDIA. H Fl. yellow.
3 pilosa, Roth. India. H Fl. yellow.

4 Corchorus, LINN.

1 capsularis, Linn. *The Jute Plant.* INDIA. s Fl. yellow.
2 olitorius, Linn. TROP. ASIA. s Fl. yellow.
3 acutangulus, Lam. INDIA. ⊙ Fl. yellow.
4 species. ⊙ Fl. yellow.

5 Elæocarpus, LINN.

1 serratus, Linn. INDIA AND JAVA. T
2 grandis, Queensland.

ORDER XXVII.

LINEÆ.

THE FLAX FAMILY.

A family of herbs and shrubs, rarely trees. *Leaves* alternate, simple, and mostly entire. *Flowers* brightly coloured, regular, and usually glandular on the staminal disk. *Stamens* more or less united at the base. *Fruit* capsular, usually splitting into 3—5 cocci, rarely a drupe. Specimens of *Linum* and *Erythroxylon* should be compared together.

1 Linum, LINN.

1 usitatissimum, Linn. *Flax Plant.* EUROPE. ⊙ Fl. blue.
2 „ var. grandiflorum. ALGERIA. ⊙ Fl. deep red.

2 Rienwardtia, DUMORT.

1 trigyna, Planch. INDIA. s Fl. yellow.

3 Erythroxylon, LINN.

1 monogynum, Roxb. *Bastard Sandal.* INDIA. T Fl. whitish. *Kan.* Dévadàru mara. ದೇವದಾರು ಮರ.
2 coca, S. Amer. s Fl. whitish. Cocaine is the active principle of the leaf of this shrub.

ORDER XXVIII.

MALPICHIAGEÆ.

THE MALPIGHIA FAMILY.

This large American family of trees and climbing shrubs is represented in India by only three genera and twelve species. The latter are characterised by their climbing habit, opposite simple leaves, and regular flowers having fringed and clawed petals. The large gland or glands at the base of calyx is also a peculiar condition of the family. The plants named at foot are all highly ornamental, and it is not difficult to procure specimens in local gardens.

1 Malpighia, PLUM.

1 glabra, S. AMER. s Fl. bright yellow.
2 punicifolia, DC. *Barbadoes Cherry.* S. AMER. s Fl. rose.
3 coccifera, Linn. S. AMER. s Fl. rosy-white.

2 Hiptage, GÆRTNER.

1 Madablota, Gærtn. INDIA. c Fl. white. *Kan.* Adaraganchi hambu. ಅದರಗಂಚಿಹಂಬು.
2 parvifolia, W. & A. INDIA. c Fl. whitish.

3 Aspidopterys, A. JUSS.

1 canarensis, Dalz. MYSORE. c Fl. yellow.

4 Banisteria, LINN.

1 laurifolia, Linn. S. AMERICA. c Fl. yellow.

5 Stigmatophyllum, JUSS.

1 aristatum, LINN. BRAZIL. c Fl. yellow.

ORDER XXIX.

ZYGOPHYLLEÆ.

THE BEAN-CAPER FAMILY.

The Indian species of this family are all herbs or small shrubs. The indigenous herb, *Sanna neggilu gida*, so well known for its medicinal properties, is an excellent type of the Order. It is usually found in damp soil under tank-bunds. The introduced tree, *Guaiacum officinale*, affords the valuable wood known as *lignum-vitæ*. Compare it with the weed referred to above.

1 Tribulus, LINN.

1 cistoides, Linn. Native weed ⁜ Fl. yellow.
2 terrestris, Linn. Do ⁜ Fl. yellow. *Kan.* Sanna neggilu gida. ಸಣ್ಣ ನೆಗ್ಗಿಲು ಗಿಡ.

2 Guaiacum, LINN.

1 officinale, Linn. *Guaiac Tree.* W. INDIES.

3 Melianthus, LINN.

1 major, Linn. *Honey Shrub.* C. G. HOPE.

ORDER XXX.

GERANIACEÆ.

GERANIUM AND SORREL FAMILY.

Herbs, undershrubs, and rarely trees. The morphology of this large Order can only be determined by studying one or two good type specimens of each tribe. The latter being treated by some botanists as distinct Orders.

Tribe I *Geranieæ.* Herbs or undershrubs with, frequently, swollen nodes and membranous stipules.

Examine all the parts of any garden geranium. In doing so, note the peculiar formation of the fruit, which is not unlike a crane's bill.

Tribe II *Oxalideæ*. Herbs or small trees with compound sensitive leaves. Compare the *Bilimbi* tree with the perenninal herb *Pullampurasi soppu*.

Tribe III *Balsamineæ*. Herbs with succulent stems, simple leaves and irregular showy flowers. See the garden Balsam, which has run wild about Bangalore.

Tribe IV *Tropæolaceæ*. Trailing herbaceous plants with alternate, simple, smooth, and often peltate leaves. Flowers irregular and showy. Fruit acrid. The introduced bedding plants popularly called *Nasturtium* really belong to the genus *Tropæolum*, and are good types of the tribe.

1 Pelargonium, (GARDEN GERANIUM.)

1 erianthum, DC. *Crane's Bill.* N. AMER. ☥
2 sanguineum, Linn. EUROPE. ☥
3 species. ☥

Fl. mostly red.

2 Oxalis, LINN. *Wood Sorrel.*

1 corniculata, Linn. INDIA. ☥ Fl. yellow. *Kan.* Pullampurasi soppu. ಪುಲ್ಲಂಪುರಸಿ ಸೊಪ್ಪು.
2 Bowieana, Lodd. ☥ Fl. dark rose.
3 tetraphylla violacea, Hort. ☥ Europe. Fl. violet-purple.
4 acetosella, Linn. ☥ Britian. Fl. pale rose.

3 Biophytum, DC.

1 sensitivum, DC. Native weed. ☥ Fl. yellow, rarely purple.
2 Reinwardtii, Walp. do ☥ Fl. yellow.

4 Averrhoa, Linn. Fruit trees.

1 carambola, Linn. India (Cultd.) ♄ Fl. whitish purple. *Kan.* Komárak mara, ಕೊಮರಕ ಮರ.

2 Bilimbi, Linn. India. (Cultd.) ♄ *Kan.* Bilimbi mara, ಬಿಲಿಂಬಿ ಮರ.

5 Impatiens, Linn.

1 Balsamina, Linn. *Garden Balsam.* India. ⊙
do 1 var. vulgaris. ⊙
do 2 var. coccinea. ⊙
do 3 var. arcuata. ⊙
do 4 var. rosea. ⊙
Fl. various.

2 mysorensis, Roth. Mysore. ⊙ Fl. red. *Kan.* Kádu Karnakundala gida, ಕಾಡು ಕರ್ಣಕುಂಡಲ ಗಿಡ.

3 Jerdoniæ, Wight. Malabar. ♃ Fl. yellow and red.

4 parasitica, Beddome. Malabar. ♃ Fl. green and yellow.

5 Hookeriana, Arnott. Ceylon. s. h. Fl. white streaked with red.

6 Hawkeri, Hort. ♃ Fl. red.

7 Sultani, Hort. ♃ Fl. bright red.

6 Tropæolum, Linn. *Garden Nasturtium.*

1 majus, Linn. Peru. ⊙ ☾
2 tricolorum, Sweet. Chili. ♃
3 Lobbianum, Hook. Venzul. ⊙ ☾
} Fl. usually red or yellow.

7 Hydrocera, Blume.

1 triflora, W. & A. India. Fl. variegated, red, white, and yellow. Aquatic herb.

ORDER XXXI

RUTACEÆ.

THE RUE AND ORANGE FAMILY.

A large tropical and sub-tropical Order of trees and shrubs; the tribe *Ruteæ* being almost exclusively herbs. The fœtid herb, *Ruteæ graveolens*, is said to be obnoxious to snakes, and it is often cultivated near habitations on that account. The orange tribe, *Aurantieæ*, is well marked by its white fragrant flowers, glandular leaves, and handsome fruit. With types of the above, compare specimens of *Zanthoxylon* and *Toddalia*, genera representing two additional tribes of the family.

1 Ruta, LINN.

1 graveolens, Linn. *Common Rue*. S. EUROPE. H Fl. yellow. *Kan.* Hávunanjina gida. ಹಾವು ನಂಜಿನ ಗಿಡ.

2 Zanthoxylum, LINN.

1 ovalifolium, Wight. INDIA. C. S. Fl. whitish.
2 species. INDIA. S Purgent and aromatic. Possibly *alatum*, Roxb.

3 Toddalia, JUSS.

1 aculeata, Pers. INDIA. C Fl. white. *Kan.* Kádu menasu gida. ಕಾಡುಮೆಣಸು ಗಿಡ.

4 Glycosmis, CORREA.

1 pentaphylla, Correa, INDIA. S Fl. white.

5 Murraya, LINN.

1 exotica. Linn. *China Box*. CHINA. S Fl. white. *Kan.* Angárakana gida. ಅಂಗಾರಕನ ಗಿಡ.

2 Kœnigii, Spreng. *Curry Leaf Tree.* INDIA. T Fl. white. *Kan.* Kari bevu mara. ಕರಿಬೇವು ಮರ.

6 Clausena, BURM.

1 Wampi, Blanco. *Yields Wampee Fruit.* CHINA. T Fl. white.

2 Willdenovii, W. and A. INDIA. S Fl. creamy-white. *Kan.* Kádu karabe gida. ಕಾಡುಕರಿಬೆ ಗಿಡ.

7 Triphasia, LOUR.

1 trifoliata, DC. CHINA. S Fl. white.

8 Limonia, LINN.

1 acidissima (?) Linn. INDIA. S Fl. white.

2 spectabilis. Received from Madras under this name. A shrub with slightly irregular flowers of a delicate rose colour.

9 Atalantia, CORREA.

1 monophylla, Correa. INDIA. T Fl. white. *Kan.* Kádu nimbe or nayi byalada mara. ಕಾಡು ನಿಂಬೇ (ನಾಯಿಬ್ಯಾಲದ) ಮರ.

2 racemosa, W. and A. INDIA. T Fl. white. *Kan.* Hutsu nimbe mara. ಹುಚ್ಚು ನಿಂಬೇಮರ.

10 Citrus, LINN.

1 medica, Linn. *The Citron.* ASIA. S Flowers white. *Kan.* Mádavála gida. ಮಾದವಾಳಗಿಡ.

do. 1 var. Limonum, *The Lemon.* ASIA. S *Kan.* Hérile gida. ಹೇರಳೆಗಿಡ.

do. 2 var. acida, *The Sour Lime.* INDIA. S *Kan.* Nimbe gida. ನಿಂಬೆಗಿಡ.

do. 3 var. Limetta. *The Sweet Lime.* INDIA. S *Kan.* Gajanimbe gida. ಗಜನಿಂಬೆ ಗಿಡ.

2 Aurantium, Linn. *The Orange.* ASIA. ☥ *Kan.* Kittale mara. ಕಿತ್ತಳೆ ಮರ.
do. 1 var. Bigaradia, *The Seville Orange.* ☥
3 decumana, Linn. *The Pummelo.* MALAYAN ISLES. ☥ *Kan.* Sakotti mara. ಸಕ್ಕೊಟ್ಟಿ ಮರ.

11 Feronia, GAERTN.
1 Elephantum, Correa. *Elephant or Wood Apple.* INDIA. ☥ Fl. white. *Kan.* Belada mara. ಬೇಲದ ಮರ.

12 Ægle, CORREA.
1 Marmelos, Correa. *The Bael Tree.* ASIA. Fl. white. *Kan.* Bilvapatre mara. ಬಿಲ್ವಪತ್ರೆ ಮರ.

13 Calodendrum, W. CAPE OF GOOD HOPE.
1 capense, W. ☥

ORDER XXXII.

SIMARUBEÆ.

THE QUASSIA FAMILY.

A bitter principle of the bark is the chief characteristic of this tropical family of trees and shrubs. The formation of the two indigenous trees should be carefully compared with that of the introduced shrub, *Quassia.*

1 Ailantus, DESF.
1 excelsa, Roxb. India. ☥ A fine clump of this handsome tree may be seen at Closepet.

2 Balanites, DELILE.
1 Roxburghii, Planch. India. ☥ *Kan.* Ingalika mara. ಇಂಗಲೀಕ ಮರ.

3 Quassia, LINN.
1 amara, Linn. *The Quassia Shrub.* AMER.

ORDER XXXIII.

OCHNACEÆ.

THE OCHNA FAMILY.

A tropical Order of shrubs and trees mostly confined to America. The deeply lobed ovary, eventually changing into three or more distinct drupes, is a good characteristic. The family is represented in India by four genera.

1 Ochna, LINN.

1 squarrosa, Linn. INDIA and PEGU. ♄ Fl. yellow. *Kan.* Múda mara. ಮೂಡಮರ.

2 pumila, Ham. INDIA. s *Kan.* Hennu gorivi gida. ಹೆಣ್ಣು ಗೊರಿವಿ ಗಿಡ.

ORDER XXXIV.

BURSERACEÆ.

THE MYRRH FAMILY.

A tropical family of balsamiferous trees and shrubs. The resinous products known as Sambrani, Elemi, Myrrh, Olibanum and the so-called Balm of Gilead, are all obtained from different species of this Order.

1 Boswellia, Roxb.

1 serrata, Roxb. INDIA. ♄ Fl. whitish. *Kan.* Madi mara. ಮಾದಿ ಮರ.

2. do. var. glabra, INDIA. ♄ Fl. white. *Kan.* Sámbráni mara. ಸಾಂಬ್ರಾಣಿಮರ.

2 Garuga, ROXB.

1 pinnata, Roxb. INDIA. ♄

3 Balsamodendron, KUNTH.

1 Mukul, Hook. INDIA. ♄ Fl. dull red.

2 Berryi, ARN. s

4 Protium, W. AND A.

1 caudatum, W. and A. INDIA. ᴛ *Tel.* Konda mamadi mánu. ಕೊಂಡಮಾಮಡಿ ಮಾನು.

5 Bursera, LINN.

1 serrata, Colebar. INDIA. ᴛ Fl. whitish.

6 Filicium, THWAITES.

1 decipiens, Thwaites. WESTERN GHAUTS AND CEYLON. ᴛ A handsome evergreen tree of compact and globular form. Fl. whitish.

ORDER XXXV.

MELIACEÆ.

THE MAHOGANY FAMILY.

Trees and shrubs. *Leaves* alternate, compound, exstipulate. Observe the markedly dimidiate condition of the leaflets in *Melia*, *Swietenia* and *Cipadessa*; and in some degree all through the family. *Flowers* in loose panicles, often whitish and fragrant. *Stamens* monadelphous except in *Cedrela* and *Chloroxylon*, where they are distinct. *Ovary* entire.

1 Naregamia, W. AND A.

1 alata, W. and A. INDIA. ꜱ Fl. white, style yellow.

2 Melia, LINN.

1 Azadirachta, Linn. *The Neem Tree.* INDIA. Fl. white. *Kan.* Olle bévina mara. ಒಳ್ಳೇಬೇವಿನ ಮರ.

2 Azedarach, Linn. *The Bead Tree.* PERSIA. Fl. lilac. *Kan.* Hutchu bévina mara. ಹುಚ್ಚು ಬೇವಿನ ಮರ.

3 dubia, Cav. INDIA. ᴛ Fl. greenish white. *Kan.* Hebévina mara. ಹೆಬ್ಬೇವಿನ ಮರ.

3 Cipadessa, BLUME.

1 fruticosa, Blume. INDIA. ♂ Fl. white. *Kan.* Chittundi gida. ಚಿಟ್ಟುಂಡಿಗಿಡ.

4 Walsura, ROXB.

1 piscidia, Roxb. INDIA. ☿ dull-yellowish.

5 Soymida, ADR. JUSS.

1 febrifuga, Adr. JUSS. INDIA. ☿ Fl. greenish-white. *Kan.* Swami mara. ಸ್ವಾಮಿಮರ.

6 Chickrassia, ADR. JUSS.

1 tabularis, Adr. Juss. *The Chittagong-Wood Tree.* Fl. yellowish or red.

7 Cedrela, LINN.

1 Toona, Roxb. *White Cedar.* INDIA and AUST. ☿ Fl. white. Called *Noge* and *Belandi* in Coorg.

8 Chloroxylon, DC.

1 Swietenia DC. *Satin-Wood Tree.* INDIA. ☿ Fl. creamy-white. *Kan.* Huragalu mara. ಹುರಗಲು ಮರ.

9 Swietenia, LINN.

1 Mahagoni, Linn. *Mahogany Tree.* S. AMER.

2 macrophylla. Received from Bot. Gardens, Calcutta. The large leaved mahogany.

ORDER XXXVI.

OLACINEÆ.

THE OLAX FAMILY.

A widely distributed Order of trees and shrubs, often climbing and occasionally spinose. The type specimen in this collection is a robust climber with alternate, simple, ovate leaves, and short axillary racemes of small whitish flowers.

1 Ximenia, Linn.

1 americana, Willd. India. s Fl. white. *Kan.* Nagare gida. ನಾಗರೆಗಿಡ.

2 Olax, Linn.

1 scandens, Roxb. India. c Type specimen.

3 Opilia, Roxb.

1 amentacea Roxb. India. s

Order XXXVII.

ILICINEÆ.

THE HOLLY FAMILY.

Shrubs and trees. Represented in the alpine parts of India by several species of *Ilex*. *Leaves* coriaceous, simple, and often shining. *Flowers* inconspicuous, (often greenish) in axillary fascicles or cymes. The Europe holly, *Ilex Aquifolium*, does not succeed at Bangalore ; but the Chinese species named below is not a bad substitute.

1 Ilex, Linn.

1 cornuta, Lindl. China. s Fl. green.
2 Paraguayensis, Lamb. *Paraguay Tea Plant.* s Fl. green.

Order XXXVIII.

CELASTRINEÆ.

THE SPINDLE TREE FAMILY.

An Order of trees and shrubs. Many of the latter being woody climbers. Flowers in axillary cymes, small, regular, usually 4—5 merous with a conspicuous disk. Indian distribution chiefly confined to the hill tracts.

1 Euonymus, LINN.

1 japonicus, Thumb. JAPAN. s Fl. whitish.
do. 1 var. aurea variegata, JAPAN. s
do. 2 var. variegata. JAPAN. s

2 Celastrus, LINN.

1 paniculata, Willd. INDIA. ○ Fl. yellowish-green. *Kan.* Kangondi balli. ಕಂಗೊಂದಿಬಳ್ಳಿ.

3 Gymnosporia, W. and A.

1 emarginata, Roth. CEYLON. s
2 montana, Roxb. INDIA. T Fl. white. *Kan.* Tandrasi gida. ತಂಡ್ರಸಿ ಗಿಡ.

4 Elæodendron, JACQ. f.

1 glaucum, Pers. CEYLON. T Fl. greenish-white. *Kan.* Mukarive mara. ಮುಕ್ಕರಿವೆ ಮರ.

ORDER XXXIX.

RHAMNEÆ.

THE BUCK THORN FAMILY.

An Order of trees and shrubs chiefly confined to the tropical and sub-tropical regions of the world. Note the small, regular, often greenish flowers usually arranged in axillary cymes. Note also that the stamens are opposite to the petals, while in *Celastrineæ* they are alternate. The species with vernacular names are all good types of the family.

1 Ventilago, GÆRTN.

1 madraspatana, Gærtn. INDIA. s *Kan.* Pópli gida. ಪಾಪ್ಲಿ ಗಿಡ. The root-bark of this plant affords a good orange dye.

2 Zizyphus, JUSS.

1 Jujuba, Lamk. *The Bhere Fruit Tree.* INDIA. Fl. whitish. *Kan.* Yelachi mara. ಎಲಚಿ ಮರ.

2 nummularia, W. and A. INDIA. c s Fl. whitish.
3 xylopyrus, Willd. INDIA. c s Fl. whitish. *Kan.* Párpuli gida. ಪಾರ್ಪುಲಿಗಿಡ. The fruit is commonly eaten by children.
4 rugosa, Lamk. INDIA. c s Fl. greenish-white.

3 Rhamnus, LINN. *Buckthorn.*
1 dahuricus, Pall. ASIA. s Fl. green.
2 species. Probably a var. of the former. Fl. green.

4 Scutia, COMM.
1 indica, Brongn. INDIA. c s Fl. greenish-white. *Kan.* Kurudi gida. ಕುರುಡಿ ಗಿಡ.
Fruit popular with all classes.

5 Colubrina, RICH.
1 asiatica, Brongn. ASIA. s Fl. yellowish-green.

ORDER XL.

AMPELIDEÆ.

THE VINE FAMILY.

True vines are easily determined by their climbing habit, conspicuous leaf-opposed tendrils, small greenish flowers in various cymes, and cluster-berried fruit. Examine all the parts of the common grape-vine, and then turn to the succulent plant *Mangaruvalli Balli.*

1 Vitis, LINN. (*Cissus.*)
1 quadrangularis, Wall. INDIA. c. H. *Kan.* Mangaruvalli balli. ಮಂಗರುವಳ್ಳಿ ಬಳ್ಳಿ.
2 discolor, Dalz. ASIA. c. H. Fl. yellowish.
3 velutinus, Lind. ASIA. c. H.
4 glauca, W. and A. Concan. c
5 vinifera, Linn. *The Grape Vine.* W. ASIA. c Fl. whitish. *Kan.* Drákshi gida. ದ್ರಾಕ್ಷಿಗಿಡ.

The following *varieties* of this useful species are found in local cultivation.—

Aurangabad.	Mrs. Prince's Muscat.
Muscat of Alexandria.	Black Prince.
Fosters Seedling.	Buckland Sweetwater.
Black Hambro.	Royal Muscadine.
Gros Colman.	Black Alicante
White Frontignac.	Lady Downes.
Madersfield Court.	Country White.
Bowood Muscat.	„ Purple.

6 indica, Linn. ASIA. ○
7 Rheedei, W. and A. ASIA. ○
8 setosa, Wall. ASIA. ○
9 carnosa, Wall. INDIA. ○
10 auriculata, Roxb. INDIA. ○
11 argentea (?) Received under this name from Calcutta.
12 species. INDIA. ○ *Kan.* Kádu kumbala balli. ಕಾಡುಕುಂಬಳ ಬಳ್ಳಿ.

Fl. greenish white to yellow.

A coarse species with fruit the size of a large cherry.

2 Leea, LINN.
1 sambucina, Willd. ASIA. s Fl. greenish-white.

3 Ampelopsis, MICH. *Virginian Creeper.*
1 tricuspidata.

ORDER XLI.

SAPINDACEÆ.

THE SOAPWORT FAMILY.

A large Order of trees, (which are most abundant) shrubs, and rarely wiry herbs. Chiefly confined to the tropics of S. America and Asia. The leaves are commonly pinnate, exstipulate, and alternate. There are,

however, many exceptions in the technical characters of both the leaf and flower. The latter is usually inconspicuous and unsymmetrical, the stamens being an odd number to the corresponding parts. A careful examination of Nos. 1, 3 and 5 will enlighten the student as to the anomalous character of this family.

1 Cardiospermum, Linn.

1 Halicacabum, Linn. *Heart Seed.* Asia. ⊙ c Fl. white. *Tel.* Buddakákaratíge. ಬುಡ್ಡಕಾಕರ ತೀಗೆ.

2 Allophylus, Linn.

1 cobbe, Blume. India. T Fl. yellowish or white.

3 Sapindus, Plum.

1 trifoliatus, Linn. *Soapnut Tree.* India. Fl. mealy-white. *Kan.* Kúgati mara. ಕೂಗಟಿ ಮರ.

4 Nephelium, Linn.

1 Lit-chi, Camb. *The Litchi Tree.* China. Fl. greenish-white.
2 Logana, Camb. Pegu. *The Logan Tree.* T Fl. yellowish-white.
3 species from Java, Beddome. T

5 Dodonæa, Linn.

1 viscosa, Linn. Asia & Aust. s Fl. green. *Kan.* Bandare gida. ಬಂದರೆ ಗಿಡ.

6 Melianthus, Tournef. *The Honey Shrub.*

1 major, Linn. South Africa. s

7 Paullinia.

1 oceaniea.

ORDER XLII.

ANACARDIACEÆ.

THE MANGO FAMILY.

An important tropical Order of trees and shrubs. There is no special characteristic in the leaf arrangement beyond the fact that a peculiar gum-resin is often discharged by the tender foliage and bark, as in the genus *Anacardium*. The flowers are small, uniexual, bisexual, or polygamous; also unsymmetrical, by the frequent abortion of stamens. Ovary generally one-celled. Nos. 3, 5 and 7 are good types of the family.

1 Rhus, LINN.

1 mysorensis, Heyne. *Native Sumach.* s

2 Pistacia, LINN.

1 chinensis, CHINA.

3 Mangifera, LINN.

1 indica, Linn. *The Mango Tree.* INDIA. Fl. yellowish. *Kan.* Mávina mara. ಮಾವಿನ ಮರ.

2 sylvatica, Roxb. NORTHERN INDIA. T

4 Anacardium, ROTTB.

1 occidentale, Linn. *The Cashew-Nut Tree.* AMER. Fl. yellowish with pink stripes. *Kan.* Turuka géru mara. ತುರುಕಗೇರು ಮರ.

5 Buchanania, ROXB.

1 latifolia, Roxb. INDIA. T Fl. greenish-white. *Kan.* Murkali mara. ಮುರ್ಕಳಿಮರ.

6 Odina, ROXB.

1 Wodier, Roxb. INDIA. T Fl. greenish-yellow. *Kan.* Udi or sinti mara. ಉಡಿ (ಸಿಂಟಿ) ಮರ.

7 Semecarpus, Linn.

1 Anacardium, Linn. *Marking-Nut Tree.* India. Fl. greenish-white. *Kan.* Géru mara. ಗೇರುಮರ.
,, var. cuneifolia, DC. India. ᴛ *Kan.* Goddu géru mara. ಗೊಡ್ಡು ಗೇರುಮರ.

8 Spondias, Linn.

1 mangifera, Willd. *Hog Plum.* India. Fl. greenish-white. *Kan.* Amate mara. ಅಮಟೆ ಮರ.
2 acuminata, Roxb. India. ᴛ Fl. whitish.
3 pleyogena (?) ᴛ

9 Schinus, Linn.

1 Molle, Linn. *Bastard Pepper Tree.* Brazil. Fl. yellowish-white. A graceful weeping tree.

Order XLIII.

MORINGEÆ.

HORSE RADISH TREE FAMILY.

This small Order consists of only three species. The one entered here is universally known in Indian gardens as the "drum stick" and " horse radish tree" Oil of Ben is expressed from the seed.

1 Moringa, Lamk.

1 pterygosperma, Gærtn. *Horse Radish Tree.* India. *Kan.* Nugge mara. ನುಗ್ಗೇ ಮರ.

A small soft wooded tree. Profusely covered, in March, with creamy white flowers.

ORDER XLIV.

LEGUMINOSÆ.

SUB-ORDER I.

PAPILIONACEÆ.

THE PEA FAMILY.

It should be noted that this Order of herbs, shrubs, and trees, the largest but one of flowering plants, is arranged under three well defined Sub-Orders—I *Papilionaceæ*, II *Cæsalpinieæ*, and III *Mimoseæ*. The first of these is cosmopolitan, and possesses the typical, irregular, butterfly pea-flower. Representatives are found in all countries, mostly in the form of herbs, shrubs, and twiners; the trees being largely confined to the tropics. See the garden pea, or the field bean, *Avare*, ಅವರೆ.

Cæsalpinieæ is confined to the tropical, sub-tropical, and warm temperate parts of the world. It is largely made up of trees and shrubs with finely pinnate leaves and handsome irregular flowers. Examine Nos. 65, 73 and 77, all of which are good types.

Mimoseæ is also restricted to the warmer parts of the globe. The small regular flowers are usually arranged in dense globular heads (puff-balls) or cylindrical spikes. See the indigenous genera. The progressive transition from the irregular to the regular form of flower can be distinctly traced through these Sub-Orders. Leguminosæ contains nearly 7000 known species.

1 Genista, LINN.

1 spartium (?) *Spanish Broom.* (?) EUROPE.

2 Rothia, PERS.

1 trifoliata, Pers. Annual weed. INDIA. Fl. pale yellow. *Kan.* Belekalu soppu. ಬೆಳೆಕಾಲುಸೊಪ್ಪು.

3 Heylandia, DC.

1 latebrosa, DC. Common weed. INDIA. Fl. yellow.

4 Crotalaria, LINN.

1 juncea, Linn. *Yields Sunn Fibre.* ASIA. s Fl. yellow. *Kan.* Sanabu gida. ಸಣಬು ಗಿಡ.

2 verrucosa, Linn. s Fl. yellow, white and blue.

3 sericea, Retz. INDIA. s Fl. purplish.

4 retusa, Linn. ASIA & TROP. AMER. s Fl. yellow tinged with purple.

5 mysorensis, Roth. INDIA. s Fl. yellow.

6 bifaria, Linn. WESTERN INDIA. s Fl yellow.

7 speciosa, Heyne. SOUTH INDIA. s Fl. yellow.

8 semperflorens, Vent. INDIA. s Fl. bright yellow.

9 incana, Linn. TROP. AFRICA AND ASIA. s Fl. yellow.

10 Grahamiana W. and A. INDIA. s Fl. yellow.

11 striata, DC. INDIA. s Fl. yellow striped with red.

12 floribunda, ? INDIA. s Fl. yellow.

13 tecta, Roth. Mysore. s Fl. pale yellow.

14 orixensis, Rottl. do. s Fl. yellow. *Kan.* Kadu budde gida. ಕಾಡುಬುಡ್ಡೆ ಗಿಡ.

15 albida, Heyne. do. s Fl. pale yellow.

16 ferruginea, Grah. INDIA. s Fl. yellowish-brown.

17 nana, Burm. INDIA. ⊙ Fl. pale or creamy yellow.

18 calycina, Schrank. INDIA. ⊙ Fl. pale yellow. *Kan.* Bekkina tarudu gida. ಬೆಕ್ಕಿನ ತರುಡು ಗಿಡ.

19 species, Fl. orange-yellow. (Near Leschenaultii, DC.) INDIA. s

5 Trifolium, LINN.

1 pratense, Linn. *Clover.* H EUROPE. Fl. reddish.

2 repens, Linn. EUROPE. H Fl. pinkish-white.

11 Mundulea, DC.

1 suberosa, Benth. TROP. AFRICA. s Fl. silvery-red.

12 Tephrosia, PERS.

1 candida, DC. INDIA. s Fl. reddish or white.
2 senticosa, Pers. INDIA. s
3 purpurea, Pers. TROP. ASIA. H. S. Fl. red. *Kan.* Wajarada nili gida. ವಜ್ರದ ನೀಲಿ ಗಿಡ. *Tel.* Yempali chettu. ಯೆಂಪಲಿ ಚೆಟ್ಟು.
4 tenuis, Wall. INDIA. H
5 tinctoria, Pers. W. and S. Peninsula. s Fl. pale red. *Kan.* Batte harikina gida. ಬಟ್ಟೆಕಾರಿಕಿನ ಗಿಡ.
6 toxicaria, S. Amer. s The herbage is used for poisoning fish.

13 Sesbania, PERS.

1 ægyptiaca. Pers. Yields charcoal and pith. EGYPT. T Fl. pale yellow. *Kan.* Arisina jinangi mara. ಅರಿಸಿನ ಜೀನಂಗಿ ಮರ.
do. var. picta, Pers. INDIA. s Fl. reddish. *Kan.* Kari jinangi mara. ಕರೀ ಜೀನಂಗಿ ಮರ.
2 aculeata, Pers. TROPICS OF OLD WORLD. s Fl. yellow, dotted with red. *Kan.* Mullu jinangi gida. ಮುಳ್ಳು ಜೀನಂಗಿ ಗಿಡ.
3 procumbens, W. and A. do. ⊙ *Kan.* Bendu gida. ಬೆಂಡುಗಿಡ.
4 grandiflora, Pers. INDIA T Fl. white. *Kan.* Agase mara. ಅಗಸೆ ಮರ.
5 var. coccinea. INDIA. T The red flowered variety.

14 Hedysarum, LINN.

1 coronarium, Linn. *French Honey Suckle.* ITALY. Fl. red. H A good fodder herb commonly known as the *Soola Clover.*

15 Zornia, GMEL.
1 diphylla, Pers. INDIA. ⊙ Fl. reddish-yellow. *Kan.* Nellu jellu soppu. ನೆಲ್ಲು ಜೆಳ್ಳುಸೊಪ್ಪು.

16 Stylosanthes, SW.
1 mucronata, Willd. A common weed. ASIA.

17 Æschynomene, LINN.
1 indica, Linn. TROPICS OF OLD WORLD. ⊙
2 aspera, Linn. Do ⊙

18 Ormocarpum, BEAUV.
1 sennoides, DC. A native weed. s Fl. yellow.

19 Eleiotis, DC.
1 sororia, DC. INDIA. ⊙ A common weed.

20 Pseudarthria, W and A.
1 viscida, W and A. INDIA AND CEYLON. s

21 Uraria, DESV.
1 picta, DESV. TROP ASIA AND AFRICA. Fl. purple.

22 Lourea, NECK.
1 vespertilionis, DESV INDIA ♃

23 Alysicarpus, NECK.
1 bupleurifolius, DC. INDIA. ⊙
2 rugosus, DC. INDIA. ⊙ or biennial.

24 Desmodium, DESV.
1 umbellatum, DC. ASIA. s Fl. red.
2 latifolium, DC. ASIA. s Fl. red
3 polycarpum, DC. ASIA. s Fl. reddish.
4 triflorum, DC. ASIA. ♃ *Kan.* Kadu pullampursi soppu. ಕಾಡು ಪುಳ್ಳಂಪುರಸಿ ಸೊಪ್ಪು.
5 gyrans, DC. INDIA. s This sensitive plant is very common about Bangalore. Fl. rosy-red.

6 pulchellum, Benth. ♃ INDIA. Students should observe the peculiar leaf-arrangement of this shrub. *Kan.* Sigiti gida. ಸಿಗಿಟಿ ಗಿಡ.
7 Rottleri, Baker. Mysore. ♄
8 parvifolium, DC. INDIA. ♄

25 Abrus. LINN.
1 precatorius, Linn. *Wild Liquorice.* INDIA. ♃ ♃ Fl. reddish or white. *Kan.* Gurugangi balli. ಗುರುಗಂಜಿ ಬಳ್ಳಿ. The white-seeded variety is called Bili gurugangi. ಬಿಳಿ ಗುರುಗಂಜಿ.

26 Cicer, LINN.
1 arietinum, Linn. *Yields Bengal Gram.* INDIA. ⊙ Fl. purple. *Kan.* Kadale gida. ಕಡಲೆಗಿಡ.

27 Vicia, LINN.
1 Faba Linn. *The Garden Bean.* EUROPE. ⊙ Fl. white.
2 sativa, Linn. *Vetch or Tare.* EUROPE. ⊙ Fl. red to blue.

28 Ervum, LINN.
1 Lens, Linn. S. EUROPE. ⊙ *The Lentil.*

29 Arachis, LINN.
1 hypogea, Linn. *Ground Nut.* TROP. AMER. ⊙ Fl. yellow. *Kan.* Nela or beru kadale gida. ನೆಲಬೇರುಕಡಲೆ ಗಿಡ. Largely cultivated as a field crop.

30 Lathyrus, LINN.
1 odoratus, Linn. *Sweet Pea.* SICILY. ⊙ Fl. various.

31 Pisum, LINN.
1 sativum, Linn. *Garden Pea.* S. EUROPE. ⊙ Fl. white.
2 arvense, Linn. *Country Pea.* INDIA. ⊙ Fl. white *Kan.* Batani gida. ಬಟಾಣಿ ಗಿಡ.

32 Glycine, LINN.

1 javanica, Linn. India. ○ Fl. reddish. *Kan.* Kadu avare gida. ಕಾಡವರೇ ಗಿಡ.

2 Soja, Sieb. and Zucc. N. INDIA. EAST ASIA. ⊙ Fl. reddish. *The Soja Bean.*

33 Teramnus, SIV.

1 labialis, Spreng. INDIA. ○ Fl. reddish.

34 Mucuna, ADANS. *Cowitch.*

1 atropurpurea, DC. INDIA. ○ Fl. reddish- purple.

2 pruriens, DC. (Cultivated.) INDIA. ⊙ Fl. purple.

3 monosperma, DC. INDIA. ○ Fl. dark purple, calyx nearly black. *Kan.* Anipe balli. ಅಣಿಪೆ ಬಳ್ಳಿ.

4 capitata, W and A. INDIA. (cultd.)⊙ Fl. purple. *Kan.* Nasagunni balli. ನಸಗುನ್ನಿ ಬಳ್ಳಿ.

35 Erythrina, LINN.

1 indica, Lam. *Indian Coral Tree.* Fl. red. *Kan.* Warjipe mara. ವಾರ್ಜೀಪೆ ಮರ.

2 do. var. alba, *Indian White-Coral Tree. Kan.* Bili warjipe mara. ಬಿಳಿವಾರ್ಜೀಪೆ ಮರ.

3 stricta, Roxb. INDIA. ☥ Fl. coral-red.

4 cristagalli, Linn. BRAZIL, ♄ Fl. crimson.

5 Blakii, (?) ♄. Fl. large, pale red.

6 glauca, Willd. AMERICA. ☥ Fl. coral-red.

7 ovalifolia, Roxb. INDIA ☥ Fl. scarlet-red.

8 suberosa, Roxb. INDIA ☥ Fl. red.

36 Galactia, P. BR.

1 tenuiflora, W. and A. INDIA. ○ Fl. reddish.

37 Butea, ROXB.

1 frondosa, Roxb. *Pulas Kino Tree.* INDIA. Fl. bright orange-red. *Kan.* Muttuga mara. ಮುತ್ತುಗ ಮರ.

2 superba Roxb. INDIA. ○ Fl. orange-red.

38 Canavalia, DC.

1 ensiformis, DC. *Sword Bean.* INDIA. ○ Fl. red or white. *Kan.* Tamate gida. ತಮಟೆ ಗಿಡ.

2 Do var. virosa, INDIA. ○ *Kan.* Kadu tamme balli. ಕಾಡುತಮ್ಮೆಬಳ್ಳಿ.

3 obtusifolia, DC. TROP. ASIA. ○ Fl. red.

39 Phaseolus, LINN.

1 lunatus, Linn. *Country Haricot.* ♃ Fl. greenish-yellow.

3 vulgaris, Linn. *The Kidney Bean.* UBIQUITOUS. ⊙ Fl. white. *Kan.* Huralikayi gida. ಹುರಳಿಕಾಯಿ ಗಿಡ.

3 coccineus, Lam. *Scarlet Runner.* UBIQUITOUS ⊙ Fl. scarlet.

4 adenanthus, G. F. Meyer. TROP. ASIA. ○ Fl. red, showy.

5 trilobus, Ait. INDIA. ○ Fl. pale yellow.

6 Mungo, Linn. *Green Gram.* TROP. ASIA. ⊙ Fl. yellow. *Kan.* Hesaru gida. ಹೆಸರು ಗಿಡ.

7 do. var. glaber, Roxb. ⊙ TROP. ASIA. *Black Gram.* ○ *Kan.* Vuddu gida. ಉದ್ದುಗಿಡ.

8 do. var. Wightianus, Grah. TROP. ASIA. ○ *Kan.* Kadu vuddu gida. ಕಾಡು ಉದ್ದುಗಿಡ.

40 Vigna, SAVI.

1 Catiang, Endl. *Alsandi Bean.* TROP. ASIA. ⊙ Fl. yellow or reddish. *Kan.* Alasandi balli. ಅಲಸಂದಿ ಬಳ್ಳಿ.

41 Pachyrhizus, RICH.

1 augulatus, Rich. TROP. ASIA. ○ Fl. red.

42 Clitoria, LINN.

1 Ternatea, Linn. TROP. ASIA. ○ Fl. blue with orange centre. *Kan.* Gida karnike balli. ಗಿಡ ಕರ್ನಿಕೆ ಬಳ್ಳಿ.

2 Ternatea, var. plenus. ○ Fl. blue.
3 do. pilosula, Wall. ○ Fl. white and orange.
4 biflora, Dalz. ○ s Fl. white and orange.

43 Dolichos, Linn.

1 Lablab. Linn. *Cow Gram.* Trop Asia. ○ Fl. white. *Kan.* Avare gida. ಅವರೆಗಿಡ.
2 biflorus, Linn. *Horse Gram.* Trop. Asia. ⊙ Fl. yellow. *Kan.* Hurali gida. ಹುರಳಿಗಿಡ.
3 species near falcatus, Klein. Trop. Asia. ○ *Kan-* Kadu hurali gida, ಕಾಡು ಹುರಳಿಗಿಡ,

Note two varieties of the first named, known respectively as *Gennu chikadee balli,* having white flowers, and *Chikadee balli* with reddish flowers.

44 Psophocarpus, Neck.

1 tetragonolobus, DC. *Goa Bean.* India. ⊙ Fl. lilac.

45 Atylosia, W. and A.

1 lineata, W. and A. India. s *Kan.* Kadu kadale gida. ಕಾಡು ಕಡಲೆಗಿಡ,
2 albicans, Benth. India ○ *Kan.* Nellavare, Gennu nellavare. ನೆಲ್ಲವರೆ. ಗಿಣ್ಣು ನೆಲ್ಲವರೆಗಿಡ.
3 scarabæoides, Benth. India. ⌂ ○ Fl. yellow.

46 Cajanus, DC.

1 indicus, Spreng. *Pigeon Pea or Dholl.* s Fl. yellow, or veined with red. *Kan.* Turuku togari gida. ತುರುಕು ತೊಗರಿಗಿಡ.

The smaller field variety is called Holada togari gida. ಹೊಲದತೊಗರಿಗಿಡ.

47 Cylista, Ait.

1 scariosa, Ait. India. ○ Fl. yellowish red.

48 Rhynchosia, Lour.

1 minima, DC. Everywhere in Tropics. ⊙ Fl. yellow.
2 viscosa, DC. Trop. Old World. ○.
3 rufescens, DC. India. ○ s *Kan.* Kadu togari gida. ಕಾಡುತೊಗರಿ ಗಿಡ.
4 Heynei, W. and A. S. India, ○ s
5 nummularia, DC. Western India & Ceylon. ⊙
6 cyanosperma, Benth. India ○ This is a striking jungle climber, Fl. bright red, or pure white.

49 Flemingia, Roxb.

1 strobilifera, R. Br. Trop. Asia. s Fl. purple.
2 congesta, Roxb. Trop. Asia. s

50 Dalbergia, Linn. fil. *Cabinet Rosewood.*

1 sissoo, Roxb. India. ⊤ Fl. yellowish. *Kan.* Biridi mara. ಬಿರಡಿಮರ.
2 latifolia, Roxb. India ⊤ Fl. whitish. *Kan.* Biti mara. ಬೀಟಿಮರ.
3 rimosa, Roxb. Fl. whitish. ○
4 melanoxylon, Beddome ? From Java. Fl. white.
5 sympathetica, Nimmu. Western India. ○ Fl. white.
6 lanceolaria, Linn. India. ⊤ *Kan.* Hasuruganni mara. ಹಸುರುಗನ್ನಿ ಮರ.
7 paniculata, Roxb. India. ⊤ Fl. yellowish. *Kan.* Pacheri mara. ಪಚ್ಚೆರಿ ಮರ.
8 monosperma, Dalz. India and China. ○

51 Pterocarpus, Linn.

1 Marsupium, Roxb. *Kino Tree.* India. Fl. yellowish. *Kan.* Honne mara. ಹೊನ್ನೆ ಮರ.
2 santalinus, Linn. India. ⊤ Fl. yellowish. ⊤ *Kan.* Raktachandana mara. ರಕ್ತಚಂದನ ಮರ.

52 Pongamia, VENT.

1 glabra, Vent. *Indian Beech.* T Fl. white or purple. *Kan.* Honge mara. ಹೊಂಗೆ ಮರ.

53 Derris, LOUR.

1 scandens, Benth. TROP ASIA. C Fl. pale rose.
2 Heyneana, Benth. MYSORE. C Fl. rosy-red.

54 Sophora, LINN.

1 tomentosa, Linn. TROP. ASIA. S Fl. yellow.
2 interrupta, Bedd. India. S Fl. bright yellow.

55 Virgilia, LAM.

1 capensis, Lam. C. G. Hope.

56 Goodia, SALISB.

1 latifolia, Salisb. AUSTR. S

57 Templetonia, R. BR.

1 retusa, R. Br. S. AUSTR. S

58 Swainsonia, SALISB.

1 galegifolia, R. Br. AUSTR.

59 Myrospermum, JACQ. *Myroxylon.*

1 toluiferum. *Balsam of Tolu Tree.* S. AMER. Fl. rose.
2 peruiferum, Ecuador and Peru. This tree yields a fragrant balsam called "Olea Vermelho."

60 Viminaria, SMITH.

1 denudata, Smith. S. AUSTR. S

61 Clianthus, SOLAND.

1 Dampieri, A. Cunn. *Sturt's Pea.* S. AUST. C Fl. scarlet.
2 punicens, Soland. *Glory Pea.* N. ZEAL. C Fl. crimson.

62 Robinia, LINN.

1 pseudo-acacia, Linn. N. AMER. ☥

63 Castanospermum, A. CUNN. *Moreton Bay Chesnut.*

1 australe, A. Cunn. ☥ Fl. orange-crimson.

64 Brownea, W.

1 grandiceps, Jacq, Caraccas. ☥ Fl. red.
2 rosea. W. INDIES. Shrub or small tree. Fl. rose

SUB-ORDER II.

CÆSALPINIEÆ.

THE SENNA FAMILY.

65 Cæsalpinia, LINN.

1 Bonducella, Fleming. *Nicker Plant.* TROP. ASIA. ○ Fl. yellow. *Kan.* Sanna gajjiga gida. ಸಣ್ಣ ಗಜ್ಜಿಗಿಡ.
2 Nuga, Ait. TROP. ASIA. ○ Fl. yellow.
3 sappan, Linn. *Sappan Wood Tree.* INDIA. *Kan.* Patangada mara. ಪತಂಗದ ಮರ.
4 pulcherrima, Swartz. *Flower Fence.* ☥ Fl. red tinged with yellow. *Kan.* Kenjige mara ಕೆಂಜಿಗೆಮರ.
5 do. var. lutea. ☥ Fl. orange-yellow.
6 sepiaria, Roxb. *Mysore Thorn.* TROP. ASIA. ○ Fl. yellow. *Kan.* Kurudu gajjige gida. ಕುರುಡು ಗಜ್ಜಿಗಿಡ.
7 mimosoides, Lam. INDIA. ○ Fl. yellow.
8 coriaria, Wild. *American Sumach.* ☥ Also called 'Divi Divi.' Fl. pale yellow.
9 Bonduc, Roxb. INDIA. ○ Fl. yellow. *Kan.* Gajjiga gida. ಗಜ್ಜಿಗಿಡ.

10 tinctoria (?) S. AMER. ☿ Fl. reddish.

66 Peltophorum, VOGEL.

1 ferrugineum, Benth. TROP. ASIA. ☿ Fl. yellow.

67 Mezoneurum, DESF.

1 Cucullatum, W. and A. Hills of India. ○ The garden plant is probably the *var. grandis*, Heyne. It is very fine. Fl. yellow, slightly streaked red.

68 Pterolobium, R. BR.

1 indicum, A. Rich. INDIA. ○ Fl. dull white. *Kan.* Báda bakka balli. ಬಾಡಬಕ್ಕ ಬಳ್ಳಿ.

2 do. var. microphyllum, Miq. ○

69 Poinciana, LINN.

1 elata, Linn. Affords manure for indigo. INDIA. ☿ Fl. pale yellow. *Kan.* Sunkatti mara. ಸುಂಕತ್ತಿ ಮರ.

2 Regia, Bojer. *Goldmohur Tree.* MADAGASCAR. Fl. crimson-yellow or gold streaked with scarlet and crimson. very fine.

70 Parkinsonia, LINN.

1 aculeata, Linn. *Jerusalem Thorn.* TROP AMER. Fl. yellow. Shrub or small tree.

71 Wagatea, DALZ.

1 spicata, Dalz. INDIA. ○ Fl. orange.

72 Gleditschia, LINN. *Honey Locust Tree.*

1 ferox. FROM JAVA.

73 Cassia, Linn.

1 Fistula, Linn. ☥ Fl. yellow. *Kan.* Kakke mara. *The Indian Laburnum.* ಕಕ್ಕೆ ಮರ,

2 marginata. Rcxb. *Fragrant Cassia.* INDIA. ☥ Fl. reddish. A fine tree.

3 Sophera, Linn. INDIA. s Fl. lilac or purple.

4 Tora, Linn. *Foetid Cassia.* TROP ASIA ⊙ Fl. yellow. *Kan.* Gundu tagaci gida. ಗುಂಡುತಗಸಿ ಗಿಡ.

5 auriculata, Linn. *Tanner's Cassia.* INDIA. s Fl. yellow. *Kan.* Olle tangadi gida. ಒಳ್ಳೆತಂಗಡಿಗಿಡ.

6 alata, Linn. *Ring-worm Shrub.* TROP. ASIA. Fl. orange-yellow. *Kan.* Sime agase gida. ಸೀಮೆ ಆಗಸೆಗಿಡ.

7 lanceolata, Wall. *Senna Plant.* AFRICA. ⊙

8 glauca, Lam. *Sulphur Flowered.* INDIA. ☥

9 siamea, Lam. MALAY ISDS. ☥ Fl. yellow. (C. florida, Vahl.) *Kan.* Sime tangadi mara. ಸೀಮೆತಂಗಡಿ ಮರ.

10 pumila, Lam. INDIA. s *Kan.* Nela tagaci gida. ನೆಲತಗಸಿಗಿಡ. An abundant weed in mixed pasture land. Fl. yellow.

11 occidentalis, Linn. INDIA. s Fl. pale lilac. *Kan.* Koltagaci gida. ಕೋಲ್ ತಗಸಿಗಿಡ.

12 tomentosa, Linn. TROP. AMER. s Fl. bright-yellow. *Kan.* Sogadu tagaci gida. ಸೊಗಡು ತಗಸಿಗಿಡ.

13 pubescens?

14 bicapsularis, Linn. TROP. AMER. Fl. bright-yellow.

15 Absus, Linn. INDIA. ⊙ Fl. reddish-yellow.

16 obovata, Collad. INDIA. s Fl. pale-yellow. *Kan.* Nelavarike gida. ನೆಲಾವರಿಕೆ ಗಿಡ.

17 montana. HEYNE. INDIA. s Fl. yellow. *Kan.* Betta tangadi gida? ಬೆಟ್ಟತಂಗಡಿ ಗಿಡ.

74 Hardwickia, Roxb.

1 binata, Roxb. India. ⊤ *Kan.* Karachi mara. ಕಾರಾಚಿ ಮರ. Timber dark coloured and good.

75 Saraca, Linn.

1 indica, Linn. *Asoca Tree.* India. Fl. orange-red. *Kan.* Asokada mara. ಅಶೋಕದ ಮರ.

76 Amherstia, Wall.

1 nobilis, Wall. Burmah and Malacca. ⊤ Fl. red and yellow. This is a splendid tree, but requires the moist heat of the tropics.

77 Tamarindus, Linn.

1 indica, Linn. *Tamarind Tree.* Trop. Asia. Fl. yellow, striped red. *Kan.* Hunise mara. ಹುಣಿಸೆ ಮರ.

2 occidentalis, Gært. *West Indian Tamarind* ⊤ Fl. yellow, striped red.

78 Hymenæa, Linn.

1 courbaril, Linn. *Locust Tree.* W. Indies. Fl. whitish.

79 Humboldtia, Vahl.

1 laurifolia, Vahl. India. ⊤

80 Bauhinia, Linn. *Mountain Ebony.*

1 tomentosa, Linn. Trop. Asia and Africa. ⊖ Fl. yellow. *Kan.* Vana sampage gida. ವನಸಂಪಗೆ ಗಿಡ.

2 acuminata, Linn. Trop. Asia. ⊤ Fl. whitish. *Kan.* Bili kanchivalada mara. ಬಿಳಿಕಂಚಿವಾಳದಮರ.

3 Vahlii, W. & A. *Gigantic Camel's-Foot.* India. ⊂ Fl. yellowish.

4 purpurea, Linn. INDIA and CHINA. ☿ Fl. purple-reddish. *Kan.* Kanchivalada mara. ಕಂಚಿವಾಳದ ಮರ.

5 variegata, Linn. INDIA and CHINA. ☿ Fl. white or variegated with red rose and yellow. *Kan.* Bili Kanchivalada mara. ಬಿಳಿಕಂಚಿವಾಳದಮರ.

6 Hookerii, F. Muell. N. AUSTR. ☿ Fl. variegated.

7 racemosa, Lam. TROP. ASIA. ☿ Fl. yellow.

10 macrophylla. (?) From CALCUTTA. Fl. variegated. ♂

11 anguina, Roxb. MALABAR. ♂ Fl. white.

12 malabarica? Roxb. INDIA. ☿ *Kan.* Basawana-padda mara? ಬಸವನಪಾದದಮರ.

13 species, ☿ *Kan.* Achalu mara. ಆಚಲುಮರ.

The Bauhinias are trees and shrubs with strikingly handsome flowers, many of which are also fragrant.

81 Hæmatoxylon, LINN.

1 campechianum, Linn. *Logwood.* S. AMER. ☿ Fl. yellowish.

82 Colvillea, BOJ (?)

1 racemosa, (?) ☿ Fl. orange tinged with red.

83 Ceratonia, LINN.

1 siliqua, Linn. *Carob Bean.* LEVANT. ☿ Fl. reddish brown to pale yellow.

84 Louchocarpus,

1 latifolius.

SUB-ORDER III.

MIMOSEÆ.

THE WATTLE FAMILY.

The Australian wattles have not succeeded well at Bangalore. But the indigenous *Jalis* are prominent, and oft repeated in the arborescent Flora of the maidan.

85 Neptunia, LOUR.

1 oleracea, Lour. TROP. ASIA. ⊙

86 Adenanthera, LINN.

1 pavonina, Linn. *Red-Wood Tree.* INDIA. *Kan.* Manjatti or manjadi mara. ಮಂಜಟ್ಟಿ (ಮಂಜಡಿ) ಮರ.

87 Prosopis.

1 glandulosa. *Mesquit Bean.* TEXAS. ☿ Fl. yellow.
2 juliflora, DC. S. AMER. ☿ Fl. yellowish.

88 Dichrostachys, DC.

1 cinerea, W and A. INDIA. ♂ *Kan.* Wadu warada mara. ವಡುವಾರದ ಮರ.

89 Parkia, R. BR.

1 biglandulosa, W. and A. AFRICA. ☿ Fl. white *Kan.* Sivalinga mara. ಸಿವಲಿಂಗಮರ.

90 Desmanthus, WILLD.

1 virgatus, Willd. INDIA. ♂

91 Leucæna, BENTH.

1 glauca, Benth. TROP. AMER. ☿ Fl. white.

92 Mimosa, LINN.

1 pudica, Linn, *Humble Plant.* BRAZIL. ♂ Fl. purple. *Kan.* Mudugudavare gida. ಮುಡುಗು ದಾವರೆಗಿಡ.
2 rubicaulis, Lam. *Bramble Stalk.* ☿ Fl. purplish.

93 Acrocarpus, W. & A.

1 fraxinifolius, Wight. *Shingle Tree.* INDIA. Fl. scarlet. *Coorg.* Howlige mara. ಹೌಲಿಗೆಮರ. This is now considered, by many planters, to be one of the best trees for coffee-shade.

94 Acacia, WILLD. *Wattle.*

1 Farnesiana, Willd. *Fragrant Acacia.* INDIA. ☥ Fl. yellow. *Kan.* Kasturijali mara. ಕಸ್ತೂರಿ ಮರ.

2 arabica, Willd. *Babool.* TROP. ASIA. ☥ Fl. yellow. *Kan.* Karijali or gobli mara. ಕರಿಜಾಲಿ (ಗೊಬ್ಲಿ)ಮರ.

3 leucophlæa, Willd. *Panicled Acacia.* INDIA. ☥ Fl. pale yellow. *Kan.* Bilijali mara, ಬಿಳಿಜಾಲಿ ಮರ.

4 suma, Kurz. *White-barked Acacia.* INDIA. ☥ Fl. white. *Kan.* Mugali mara. ಮುಗಳಿಮರ.

5 catechu, Willd. *Brown-barked Acacia.* ☥ Fl. yellow. *Kan.* Kaggali mara. ಕಗ್ಗಲಿ ಮರ.

6 sundra, DC. INDIA. ☥ Fl. yellow.

7 dealbata, Link. AUSTR. ☥ *Silver Wattle.*

8 decurrens, Willd. AUSTR. ☥ *Black Wattle.*

9 longifolia. Willd. AUSTR. ☥

10 melanoxylon, R. Br. AUSTR. ☥ *Austr. Blackwood.*

11 pycnantha, Benth. S. AUSTR. ☥ *Golden or Green Wattle.*

12 saligna, Wendl. W. AUSTR ☥

13 cultriformis, A. Cunn. AUSTR. ☥

14 neriifolia, A. Cunn. AUSTR. ☥

15 concinna, DC. *Soap-nut Acacia.* INDIA. ☾ Fl. pale yellow. *Kan.* Cige gida. ಸೀಗೆಗಿಡ.

16 Intsia, Willd, ? INDIA. ☾ Fl. yellow. *Kan.* Kempu cige gida ? ಕೆಂಪುಸೀಗೆಗಿಡ.

17 ferruginea, DC. INDIA. ☥ Fl. yellowish. *Kan.* Banni mara, ಬನ್ನಿಮರ.

18 homalophylla, Cunn. N. S. WALES. ☿ *The Victorian Myall*

95 Albizzia, DURAZZ.

1 Lebbek, Benth. TROP. ASIA. ☿ Fl. greenish yellow. *Kan.* Bage mara. ಬಾಗೆಮರ.
2 Julibrissin, Durazz. TROP. ASIA. ☿ Fl. red-yellow.
3 stipulata, Bow. TROP. ASIA. ☿ Fl. straw. *Kan.* Hotte bage mara. ಹೊಟ್ಟೆಬಾಗೆಮರ.
4 amara, Bow. INDIA. ☿ *Kan.* Sujjalu mara. ಸುಜ್ಜಲುಮರ.
5 odoratissima, Benth. INDIA. ☿ *Kan.* Bilvarada mara. ಬಿಲ್ವಾರದಮರ.

96 Pithecolobium, MART.

1 saman, *Rain Tree.* S. AMER. Fl. reddish purple
2 dulce, Benth.. *Corkapooli.* PHILIPP. ISDS. ☿ *Kan.* Sime hunise. ಸೀಮೆಹುಣಿಸೆ ಮರ.
3 bigeminum? Benth. A large soft-wooded tree. Not unlike the rain tree. Fl. reddish-purple.

ORDER XLV.

ROSACEÆ.

THE ROSE FAMILY.

An important Order of herbs, shrubs, and trees; mostly confined to cool temperate regions. Owing to considerable diversity in structure the family is arranged into tribes, and by some botanists into sub-orders. Its general characters are defined as follows:—*Leaves* alternate, rarely opposite, stipulate. *Flowers* regular, (except in *Chrysobalaneæ*) usually showy, and often fragrant. *Corolla* polypetalous. *Stamens* indefinite and perigynous. *Ovary* of one or more free or connate carpels. *Fruit* variable, but often conspicuous and

handsome as in the apple, peach, and loquat. Nos. 1, 3, 4, 6 and 7 afford good types of the principle tribes. Compare them carefully with each other.

1 Prunus, Linn.

1 Persica, Benth. *The Peach Tree.* Persia.
2 do. var. *The Nectarine Tree.*
3 armeniaca, Linn, *The Apricot Tree.* Armenia.
4 communis, Huds. *The Plum Tree.* Europe.

2 Spiræa, Linn.

1 astilboides.

3 Rubus, Linn.

1 idæus, Linn. *Raspberry.* Europe. s Fl. reddish.
2 rosaefolius, Smith. *Blackberry.* Mauritius. s Fl. pale red.
3 lasiocarpus, Smith. Alpine India. c Fl. purplish red. *The Indian Raspberry.*

4 Fragaria, Linn.

1 vesca, Linn. *Strawberry.* Europe. H Fl. white.

5 Poterium, Linn.

1 saguisorba, Linn. *Burnet.* Europe. s

6 Rosa, Linn. *The Rose. Kan.* Gulabi gida. ಗುಲಾಬಿ ಗಿಡ.

1 centifolia, Linn. *Provence Rose.* Caucasus.
2 Damascena, Linn. *Damask Rose.*
3 Gallica, Linn. *French Rose.* Europe.
4 bracteata, Wendl. *Macartney Rose.* China.
5 sulphurea, Ait. *Double Yellow Rose.* Asia Minor.
6 indica, Linn. *India, China, and Tea Roses.* China.
7 microphylla, Lindl. *Small-leaved Rose.*
8 alba, Linn. *White or Belgic Rose.* Caucasus.
9 Eglanteria, Linn. *Austrian Rose.* Asia Minor.

10 Banksiæ, Br. *Banksian Rose.* CHINA.
11 microcarpa, Lindl. CHINA.
12 longicuspis, Bertol. *Evergreen Rose.* CAUCASUS.
13 moschata, Mill. *Musk and Noisette Rose.* HIMALAYA.
14 multiflora, Thunb. JAPAN AND CHINA.
15 arvensis, Huds. *Ayrshire Rose.*
16 spinosissima, Linn. *Scotch Rose.*
17 rubiginosa, Linn. *Sweet Brier.* EUROPE.

Note.—A descriptive list of the *varieties* in local cultivation will be found at the end of the Catalogue.

7 Eriobotrya, LINDL.

1 japonica, Lindl. *The Loquat.* JAPAN. ☿ Fl. white *Kan.* Lakkote mara. ಲಕ್ಕೊಟೆ ಮರ.

8 Pyrus, LINN.

1 Malus, Linn. *Apple Tree.* PERSIA. Fl. *Kan.* Sevugida. ಸೇವುಗಿಡ.
2 communis, Linn. *Pear Tree.* PERSIA. Fl. white.

ORDER XLVI.

SAXIFRAGACEÆ.

THE SAXIFRAGE FAMILY.

An Order of herbs, shrubs, and a few tropical trees. Excepting the latter, its species are scattered throughout the cold and temperate regions of the world, or at high elevations in tropical and sub-tropical countries. *Leaves* alternate, simple, and usually entire; or merely lobed. *Flowers* less conspicuous than in *Rosaceæ* and usually irregular. *Styles* corresponding to the number of carpels. This family is closely allied to the preceeding one, although, comparatively, of little economic value. It consists largely of alpine weeds.

1 Saxifraga, LINN.

1 sarmentosa, Linn. fil. CHINA. H Fl. whitish.

2 Vahlia, THUMB.

1 viscosa, Roxb. A weed. INDIA. Fl. whitish.

3 Hydrangea, LINN.

1 hortensis, DC. CHINA. S Fl. white and blue.

ORDER XLVII

CRASSULACEÆ.

THE STONECROP FAMILY.

An Order of fleshy herbs represented in India by eight genera. Very similar in structure to the preceeding family, from which species are distinguished by their succulent habit, terminal cymose inflorescence, and follicular fruit. The local herb *Nununni gida* exhibits the general character of the Order.

1 Tillæa, LINN.

1 pentandra, Royle. INDIA. H Fl. white.

2 Bryophyllum, SALISB.

1 calycinum, Salisb. H Fl. greenish-red with a dash of purple.

3 Kalanchoe, ADANS.

1 spathulata, DC. (?) INDIA. H *Kan.* Nununni gida. ನುನ್ನುನ್ನಿಗಿಡ.
2 floribunda, W. and A. INDIA. H *Kan,* Nununni gida. ನುನ್ನುನ್ನಿ ಗಿಡ.

3 grandiflora, W. and A. INDIA. ⌘ *Kan.* Fl. yellow of different shades.
4 crenata, Haw. TROP. AFRICA. ⌘ *Kan.* Fl. yellow of different shades.

4 Cotyledon, LINN. *Introdnced herbs.*

1 agavoides.
2 clavifolia cristata.
3 gibbiflora.
4 Peacockii.

These succulents do well in a dry situation, and are pretty rock-work plants.

5 Sedum, LINN.

1 species .A prostrate herb with bright yellow flowers. Much used for bordering.

6 Echeveria, DC.

1 secunda, Booth. MEXICO. ⌘

ORDER XLVIII.

DROSERACEÆ.

THE SUNDEW FAMILY.

A family of herbs represented in India by only two genera. The type species in this collection is well known to botanical students as being closely allied to one of the carnivorous plants of text books.

It is a small, reddish, starlike plant with glandular hairs; found in the moist beds of nullahs. Abundant in Mysore.

1 Drosera, LINN.

1 Burmanni, Vahl. INDIA. ⌘ *The Indian Sundew.* Fl. rose.

ORDER XLIX.

HALORAGEÆ.

A small Order of weak aquatic herbs or diminutive land weeds. India has five genera, of which three are aquatic and two terrestrial.

1 Myriophyllum, LINN.

1 intermedium, DC. Aquatic herb. INDIA.

ORDER L.

COMBRETACEÆ.

THE MYROBALAN FAMILY.

Trees or shrubs; the latter often climbing. The leaf arrangement is variable, excepting that the leaves are extipulate and usually entire. *Flowers* with or without a corolla, in small crowded racemes, often creamy-white and occasionally fœtid as in *Terminalia belerica*. The most constant character is found in the inferior one-celled *ovary*, in which there are 2—7 ovules suspended by a funicle. The genus *Terminalia* affords some of our commonest forest trees. See the glandular leaf-stalk and winged fruit of some of the latter.

Genera 4 and 5 are much cultivated for their handsome flowers.

1 Terminalia, LINN.

1 catappa, Linn. *Country Almond Tree.* TROP. ASIA. Fl. pale yellow. *Kan.* Badami mara. ಬದಾಮಿಮರ.

2 belerica, Roxb. *Beleric Myrobalan.* INDIA. ☿ Fl. pale yellow. *Kan.* Tare mara ತಾರೆಮರ.

3 paniculata, Roth. INDIA. ☿ *Kan.* Huluve mara. ಹುಳುವೆಮರ.

4 chebula, Retz. INDIA ⊤ *Kan.* Arale kayi mara. ಅರಳೆಕಾಯಿಮರ.
5 citrina, Roxb. INDIA. ⊤ Fl. creamy-yellow.
6 arjuna, Bedd. INDIA AND CEYLON. ⊤ *Kan.* Toramatti or bili matti mara. ತೊರಮತ್ತಿ ಬಿಳಿಮತ್ತಿ ಮರ.
7 tomentosa, Bedd. *Kan.* Heb huluve mara. ಹೆಬ್ ಹುಳುವೆಮರ.
8 „ var. typica?
9 myriocarpa, Heurck and Muell. INDIA. ⊤ The names "Permatti" and "Chittu huluve" are also applied to species of Terminalia.

2 Anogeissus, WALL.
1 latifolia, Wall. INDIA. ⊤ *Kan.* Dindiga mara ದಿಂಡಿಗಮರ.

3 Combretum, LINN.
1 acuminatum, Roxb. INDIA. ⊂ S
2 densiflorum, SIERRA LEONE ⊂ S
3 comosum? SIERRA LEONE. ⊂ S
4 ovalifolium, Roxb. INDIA. ⊂ S
5 extensum, Roxb. INDIA. ⊂ S

4 Poivrea, COMM.
1 coccinea, DC. MADAGASCAR. ⊂ Fl. scarlet.

5 Quisqualis, LINN.
1 indica, Linn. *Rangoon Creeper.* INDIA. Fl. white and red.

ORDER LI.

MYRTACEÆ.

THE MYRTLE FAMILY.

A large and well defined Order of shrubs and trees. Chiefly tropical and sub-tropical in both hemispheres.

Leaves opposite, rarely alternate, simple, entire and usually marked by an intra-marginal vein. The greater part of them are also marked with glandular dots. *Flowers* axillary or terminal, regular, and usually showy on account of the indefinite number and large growth of the stamens. The genus *Eugenia*, of which the local tree *Nerale mara* is a type, is represented in the hill forests of India by over 100 species. But the great Australian genus *Eucalyptus* contains about 300 species. Examine specimens of Nos. 2, 4, 6 and 7.

1 Melaleuca, Linn.

1 hypericifolia, Sm. Austr. s
2 Preissiana, Schaw. Austr. s

2 Tristania, R. Br.

1 conferta, R. Br. E. Austr. ⊤ Fl. yellow.
2 neriifolia, R. Br. E. Austr. ⊤

3 Callistemon, R. Br.

1 rugulosum, s. Austr.
2 rigidus, R. Br. Austr. s

4 Eucalyptus, L'Herit. *Gum Tree.*

1 globulus, Labill, *Blue Gum.* Tasmania. ⊤
2 marginata, Sm. W. Austr. ⊤ *The Jarrah.*
3 citriodora, Hook. E. Austr. ⊤ *Lemon-scented. Gum.*
4 cornuta, Labill. W. Austr. ⊤ *The Yate Tree.*
5 corynocalyx, F. Muell. Austr. ⊤
6 Stuartiana, F. Muell. Austr. ⊤
7 paniculata. Austr. ⊤
8 rostrata. do. ⊤ *Red Gum of S. Australia.*
9 hemiphloia. do. ⊤ *Australian Box Tree.*
10 saligna. do. ⊤
11 calophylla, R. Br. W. Austr. ⊤ *Red Gum Tree.*
12 viminalis, Labill. Austr. ⊤

13
14
15

My

Psi

E

13 polyanthemos. do. T *Red Box Tree.*
14 robusta, Sm. E. AUSTR. T
15 corymbosa, Sm. AUSTR. T *The Bloodwood Tree.*

5 Myrtus, LINN.

1 communis, Linn. *The Myrtle.* S. EUROPE. S Fl. white.

6 Psidium, LINN.

1 guyava, Linn. *The Guava.* TROP. ASIA. T Fl. white. *Kan.* Chépe mara. ಚೇಪೆಮರ.
2 „ var. pyriferum, White pear-shaped. T
3 „ var. pomiferum. Red apple-shaped. T
4 „ var. variegata S

7 Eugenia, LINN.

1 jambos, Linn. *The Rose Apple.* N. INDIA. T Fl. white. *Kan.* Pannérale mara. ಪನ್ನೇರಳೆ ಮರ.
2 jambolana, Lam. *The Jamoon.* INDIA. T Fl. white. *Kan.* Nayi nerale mara. ನಾಯಿನೇರಳೆಮರ,
3 „ var. caryophyllifolia, Fl. whitish.
4 „ var. obtusifolia. Fl. whitish.
5 malaccensis, Linn. Fl. red.
6 myrtifolia, Roxb. S Fl. white.
7 speices. A tree

8 Barringtonia, FORST.

1 speciosa, Forst. CEYLON. T Fl. red.

9 Careya, ROXB.

1 arborea, Roxb. INDIA. T Fl. white and red. *Kan.* Gouju mara. ಗೌಜುಮರ.

10 Couroupita, AUBL.

1 guianensis, Aubl. *Cannon Ball Tree.* GUIANA. Fl. red and orange.

ORDER LII.

MELASTOMACEÆ.

THE MELASTOMA FAMILY.

This is a large tropical family of herbs and shrubs, rarely climbers and trees. *Leaves* opposite, simple, entire, and prominently marked by three to five-nerves running from base to apex. *Flowers* regular and usually showy. *Petals* twisted or contorted in æstivation. *Stamens* never exceeding ten, but often a smaller number. The peculiar structure of the latter is a ready guide to plants of this Order. But Indian representatives are mostly confined to the hills.

1 Osbeckia, LINN.

1 zeylanica, Willd. INDIA. ⊙ Fl. purple-mauve. A marsh herb. *Kan.* Akka jogi gida. ಅಕ್ಕ ಜೋಗಿ ಗಿಡ.

2 hispidissima, Wight. INDIA. s Fl. dark crimson.

2 Melastoma, LINN.

1 malabathricum, Linn. *Indian Rhododendron.* s Fl. mauve-purple.

3 Sonerila, ROXB.

1 elegans, Wight. W. INDIA. s Fl. red or light mauve.

4 Heterotrichum,

1 niveum.

SUB-ORDER.

MEMECYLEÆ.

These are glabrous shrubs or small trees, with dense clusters of small 4—merous flowers growing on

the stems under the leaves. The flowers are bright blue and white. Berry one—seeded.

1 Memecylon, Linn.

1 Heyneanum, Benth. India. s
2 edule, Roxb. India. s Fl blue.
3 do. var. ramiflora. s Fl. blue.

Order LIII

LYTHRACEÆ.

THE LOOSESTRIFE FAMILY.

So named in allusion to the prevailing purple colour of its flowers. An Order of trees, shrubs and herbs confined chiefly to the equatorial zone, but most abundant in tropical America. *Leaves* entire, extipulate, and generally opposite. *Flowers* regular and usually showy; grand in *Lagerstrœmia Flos-Reginæ*. *Petals* crumpled and occasionally clawed. *Ovary* free. Compare the weed 'Koli-juttu soppu' with known species of the other genera named at foot.

1 Ammannia, Linn.

1 pentandra, Roxb. India. ⊙
2 baccifera, Linn. India. ⊙ *Blister Weed.* subaquatic.
3 peploides, Spreng. India. ⊙
4 rotundifolia, Ham. India. ⊙
5 Rotala, F. Muell. India. ⊙ *Kan.* Koli juttu soppu. ಕೋಳಿ ಜುಟ್ಟು ಸೊಪ್ಪು.

Fl. small rose or whitish.

2 Lawsonia, Linn.

1 alba, Lamk. *Henna Shrub.* Persia. Fl. white to rose. *Kan.* Goranti gida. ಗೋರಂಟಿ ಗಿಡ.

3 Lagerstrœmia, Linn.

1 indica, Linn. India. s Fl. showy, rosy to reddish pink.
2 lanceolata, Wall. India. T *Kan.* Nandi mara. ನಂದಿಮರ.
3 Flos-Reginæ, Retz. *Pride of India.* T Fl. mauve to rosy purple. *Coorg.* Maruvachala mara. ಮರುವಾಚಲ ಮರ.
4 parviflora, Roxb. Fl. whitish. *Kan.* Channangi mara. ಚನ್ನಂಗಿ ಮರ.

4 Punica, Linn.

1 granatum, Linn. *The Pomegranate.* Persia. T Fl. red. *Kan.* Dalimbare gida. ದಾಳಿಂಬರೆ ಗಿಡ.
2 „ var, fl. pl. T
3 „ var. alba. T Fl. white.

5 Lafœnsia, Vandell.

1 Vandelliana (?) T Fl. whitish.

6 Heimia, Link.

1 salicifolia, Link. Spain. s Fl. yellow.

7 Cuphea, Jacq.

1 eminens, S. Amer. s Fl. red and yellow.
2 species. S. Amer. s Fl. vermilion to yellow.

Order LIV.

ONAGRACEÆ.

THE EVENING PRIMROSE FAMILY.

A cosmopolitan family of herbs, or rarely shrubs, as in the genus *Fuchsia.* Represented in India by 5

genera, two being aquatic or sub aquatic. Flowers often showy, with their parts usually in fours. (tetramerous) Ovary 2—4 celled with numerous small seeds, or rarely with only one in each cell. Dissect and study Nos. 1, 2, 5 and 7.

1 Jussiæa, LINN.

1 repens, Linn. INDIA. Aquatic. ⊞ Fl. pale yellow.
2 suffruticosa, Linn. INDIA, in nullahs and marshes. ♄ Fl. yellow. *Kan.* Kavakula gida ಕಾವಕಲ ಗಿಡ.

2 Ludwigia, LINN.

1 parviflora, Roxb. INDIA. ⊙ Fl. yellow *Kan.* Kere bendu gida. ಕೆರೆಬೆಂಡುಗಿಡ.

3 Clarkia, PURSH.

1 pulchella, Pursh. CALIFOR. ⊙ Fl. magenta, to purple and white.
2 elegans, Dougl. CALIFOR. ⊙ Fl. purple to pale red.

4 Godetia,

1 Lindleyana, Spach. N. AMER. ⊙ Fl. rose-purple with crimson spots.
2 rubicunda, Lindl. CALIFOR. ⊙ Fl. reddish.
3 Whitneyi, Hort. ⊙ Fl. rosy-red with crimson spots.
4 Lady Albemarle, Hort. ⊙ Fl. crimson.

5 Œnothera, LINN. *Evening Primrose.*

1 rosea, Ait. MEXICO. ⊞ Fl. rose. *Kan.* Kadu garugalu gida. ಕಾಡು ಗರುಗಲು ಗಿಡ.
2 biennis, AMERICA. B. H. Fl. large, yellow.

6 Fuchsia, LINN.

1 coccinea, Ait. CHILI. ♄

2 corymbiflora, Ruiz. and Pav. PERU. s Fl. various.
3 serratifolia, Hook. MEXICO. s

7 Trapa, LINN.
1 bispinosa, Roxb. *Water Chesnut*, or *Zinghara Nut*. TROP. ASIA. Fl. whitish.

ORDER LV.

PASSIFLOREÆ.

THE PASSION FLOWER FAMILY.

A remarkable group of twining herbs and shrubs, confined largely to tropical South America. The passion flowers possess well-marked characters in the *corona* and *gynophore*. Although many species are cultivated in Indian Botanical Gardens, there are but two indigenous to the country.

1 Passiflora, LINN. *Passion Flower.*
1 Leschenaultii, DC. INDIA. ○ Fl. white.
2 caerulea, Linn. BRAZIL. ○ Fl. purple.
3 minima, Linn. S. AMER. ○
4 trifasciata. (?) BRAZIL. ○
5 Middletoniana, Pax. S. AMER. ○
6 laurifolia, Linn. W. INDIES. ○ Fl. blue.
7 edulis, Sims. W. INDIES. ○ Fl. white.
8 Kermesina, L. K. Otto. BUENOS AYRES. ○ Fl. crimson.
9 quadrangularis, Linn. Brazil. ○ *Granadilla.*
10 macrophylla ○
11 Constance Eliott. Hort. ○ Fl. white.
12 species. ○

2 Tacsonia,
1 tubiflora, S. AMER. ○
2 alba S. Amer. ○ Fl. white.
3 species. Fl. scarlet.

3 Modecca, Lam.

1 palmata, Lam. India and Ceylon. ♂ Fl. yellowish-white.

Sub-Order Papayaceæ.

1 Carica, Linn.

Papaya, Linn. *The Papaw Tree.* S. Amer. Fl. yellowish- white. *Kan.* Parangi mara. ಪರಂಗಿ ಮರ.

Order LVI.

CUCURBITACEÆ.

THE CUCUMBER FAMILY.

This is a well defined Order of climbing herbs or shrubs. Chiefly tropical, and much seen in cultivation. *Leaves* large, rough, simple, alternate and usually long peticled. *Flowers* unisexual, solitary or in short racemes ; white and yellow. *Ovary* inferior, with parietal placentas. *Fruit* usually conspicuous as in the pumkin, gourd, melon and cucumber. Dissect plants bearing either of these fruits. The family is largely represented in India.

1 Trichosanthes, Linn.

1 palmata, Roxb. India. c. h. Fl. white. *Kan.* Káge mâre balli. ಕಾಗೆಮಾರೆ ಬಳ್ಳಿ.
2 auguina, Linn. *Snake Gourd.* Trop. Asia. ⊙ ♂ Fl. white. *Kan.* Padavalu balli. ಪಡವಲು ಬಳ್ಳಿ.
3 cucumerina, Linn. India. c. h. Fl. white.

2 Lagenaria, Seringe.

1 vulgaris, Seringe. *Bottle Gourd.* Trop. Asia. ♂ Fl. white. *Kan.* Soré balli. ಸೋರೆಬಳ್ಳಿ. The wild form is called 'Hutchu sore balli.' Fl. white.

3 Luffa, Cav.

1 ægyptiaca, Mill. *Peer kunkayi.* Egypt. ○ Fl. yellow.
2 acutangula, Roxb. *Hirekayi* Trop. Asia. ○ Fl. yellow *Kan.* Hire balli. ಹೀರೆಬಳ್ಳಿ.
3 „ var. Kádu kahi hire balli. ಕಾಡು ಕಹಿ ಹಿರೇ ಬಳ್ಳಿ.
4 „ var. Tuppada hire balli. ತುಪ್ಪದ ಹೀರೆ ಬಳ್ಳಿ.

4 Benincasa, Savi.

1 cerifera, Savi. India. (cultd.) ○ Fl. yellow.

5 Momordica, Linn.

1 Charantia, Linn. *Pavakayi.* India. (cultd.) c. h. Fl. yellow. *Kan.* Hágala balli. ಹಾಗಲ ಬಳ್ಳಿ.
2 dioica, Roxb. India. ○ Fl. yellow.
3 Balsamina, Linn. India. ○ Fl. yellowish. *Kan.* Hutchu tonde balli. ಹುಚ್ಚು ತೊಂಡೆ ಬಳ್ಳಿ.

Note—There is another plant, probably a wild form of *M. Charantia*, called 'Kadu hagala balli.'

6 Cucumis, Linn.

1 trigonus, Roxb. *Wild Melon.* India. ⊙ ○ Fl. yellow. *Kan.* Halmekki balli. ಹಾಲ್ಮೆಕ್ಕಿ ಬಳ್ಳಿ.
2 Melo, Linn. *The Melon.* India. (cultd.) ⊙ ○ Fl. yellow. *Kan.* Kekkarike balli. ಕೆಕ್ಕರಿಕೆಬಳ್ಳಿ.
3 sativus, Linn. *The Cucumber.* India. (cultd.) ⊙ ○ Fl. yellow. *Kan.* Savute balli. ಸವುತೆ ಬಳ್ಳಿ.

Note—'Budame balli' is supposed to be a variety of No. 1, and 'Kallangadi balli' a wild form of the melon plant.

7 Citrullus, Schrader.

1 colocynthis, Schrad. *Colocynth Plant.* India. (Cultd.) ○ Fl. light yellow. *Kan.* Dodda halmekki balli. ದೊಡ್ಡ ಹಾಲ್ಮೆಕ್ಕಿಬಳ್ಳಿ.

2 vulgaris, Schrad. *The Water-Melon*, INDIA. (Cultd.) Fl. yellow. *Kan.* Karbuj balli. ಕರ್ಬೂಜ ಬಳ್ಳಿ.

8 Cephalandra, SCHRADER,

1 indica, Naud. *Kayi donda*. INDIA. ○ Fl. white. *Kan.* Tonde balli. ತೊಂಡೆ ಬಳ್ಳಿ.

9 Cucurbita, LINN.

1 maxima, Duchesne. *The Common Gourd*. INDIA. (Cultd.) Fl. yellow. *Kan.* Kumbala balli. ಕುಂಬಳಬಳ್ಳಿ.

2 moschata, Duchesne. *The Musk Melon*. do. Fl. yellow.

3 Pepo, DC. *The Pumpkin*. do. Fl. yellow. *Kan.* Budu kumbala balli. ಬೂದು ಕುಂಬಳ ಬಳ್ಳಿ.

10 Bryonia, LINN.

1 laciniosa, Linn. INDIA. ○ Fl. yellowish. *Kan.* Linga tonde balli. ಲಿಂಗತೊಂಡೆ ಬಳ್ಳಿ.

11 Mukia, ARN.

1 scabrella, Arn. INDIA. ○ Fl. small, yellow.

12 Zehneria, ENDL,

1 umbellata, Thwaites Enum. TROP ASIA. ○ Fl. small, yellowish.

13 Rhynchocarpa, SCHRADER.

1 fœtida, Schrad. INDIA. C. H.

14 Zanonia, LINN.

1 indica, Linn. INDIA. C. H.

ORDER LVII.

BEGONIACEÆ.

THE BEGONIA FAMILY.

The genus Begonia, of which there are about 400 species, forms the bulk of this family. Succulent herbs or undershrubs with markedly oblique (dimidiate) leaves, and showy pink, rose, yellow and white flowers. There are about 65 species scattered over the moist hill regions of India and Burmah. For special structural characters see the peculiar leaf formation, the unisexual (*monœcious*) flowers, and the usually 3—celled inferior ovary containing numerous small seeds.

1 Begonia, LINN.

These ornamental herbs are extensively used in India, both for pot culture and bedding out under partial shade.

1 Rex. Putzeys, INDIA. ⌘ Fl. rose.
2 malabarica (?) Lamk. INDIA. ⌘ Fl. rose.
3 do var. dipetala (?) Fl. pale rose
4 argentea, V. Houtte. S. AMER. ⌘ Fl. pink..
5 argyrostigma, Fisch. BRAZIL. ⌘ Fl. rosy-white.
6 discolor, R. Br. S. AMERICA. ⌘ Fl. rose.
7 fuchsioides, Hook. N. GRANADA. Fl. scarlet.
8 hydrocotylifolia, Hook. MEXICO. ⌘ Fl. rose.
9 longipes, Hook. MEXICO. ⌘
10 nitida, Dryand. JAMAICA. ⌘
11 ricinifolia, A. DIETR. ⌘ Fl. white.
12 zebrina, Hort. ⌘ Fl. rose-pink.
13 manicata, Cels. BRAZIL. ⌘ Fl. pink or white.
14 ulmifolia, Haw. S. AMER. ⌘ Fl. rosy white.
15 tomentosa, Schott. ⌘ Fl. whitish.
16 hybrida, Hort. ⌘ Fl. pink.
17 macrophylla,
18 cordifolia, Thwaites. S. INDIA. ⌘
19 integrifolia, Dalz. INDIA. ⌘ Fl. white.
20 albo-coccinea, Hook. INDIA. ⌘ Fl. rose.

21 species No. 1. INDIA. ⌘ Fl. rose and crimson.
22 do. „ 2. do. ⌘ Fl. pinkish-yellow.
23 do. „ 3. do. ⌘ Fl. pale rose or whitish.
24 do. „ 4. do. ⌘
25 do. „ 5. do. ⌘
26 boliviensis. ⌘ S. AMER.
27 Veitchii ⌘ HORT.

The tuberous rooted vars. have mostly sprung from 26 and 27. Fl. crimson, yellow, and white. Very fine.

ORDER LVIII.

CACTEÆ.

THE PRICKLY PEAR FAMILY.

A large American Order of succulents. The prickly pear and a few of its congeners are naturalised in India. *Rhipsalis Cassytha*, is the only native plant. The Cacteæ are easily recognised by their peculiar habit, of which there are three distinct forms, viz., the columnar, the globular, and the lobed or jointed. The prickly pear of hedge-rows is a good type of the latter and also of the family generally.

1 Opuntia, TOUR.

1 Dillenii, Haw. *Prickly Pear.* S. AMER. ⌘ Fl. sulphur-yellow. *Kan.* Papas kattali. ಪಾಪಾಸ ಕತ್ತಾಳೆ.

2 coccinillifera, Mill. *Cochineal Plant.* S. AMER. ⌘ Fl. crimson.

3 nigricans, Haw. AMER. ⌘ Fl. yellow, tinged with red.

4 monacantha, Haw. AMER. ⌘ (Cactus indicus, Roxb.)

5 Ficus-indica, Mill. AMER. *Indian-fig Cactus.* Fl. yellow. Buds red.

2 Melocactus, DC.

1 communis, DC. *Turks Cap.* ANTILLES H
2 species (?) Mateer. Probably communis, H

3 Cereus, HAW.

1 grandiflorus, Mill. *Night-flowering Cactus.* W. INDIES. H Fl. yellow.
2 pentagonus, Haw. S. AMER. H
3 trigonus, Haw. H AMER.
4 erectus, Karw. MEXICO. H Fl. white.
5 crenatus, Hook. H AMER. Fl. whitish.
6 species. AMER. H

4 Echinocactus, SALM.

1 cornigerus, DC. *Hedgehog Cactus.* MEXICO. H

5 Epiphyllum, SALM.

1 truncatum, Haw. BRAZIL. H Fl. red.
2 „ var. rosea. Fl. rose.

6 Pereskia, HAW.

1 Bleo, DC. *Barbadoes Gooseberry.* MEXICO. S Fl. rose.

ORDER LIX

FICOIDEÆ.

THE FIG MARIGOLD FAMILY.

An Order of small fleshy herbs largely represented in Africa. A few of the Indian species are commonly used in food and medicine. See Nos. 1, 3, and 5. Structural characters are not very clearly defined. *Sepals* 4—5, usually persistent. *Petals* numerous or obsolete. *Stamens* perigynous. *Styles* distinct, and equal in number with the carpels. *Fruit* capsular.

1 Trianthema, LINN.

1 monogyna, Linn. TROP. ASIA & AFRICA. ⊞ *Kan.* (gandu) *Tal.* Moga ataku mamidi aku. ಮೊಗ ಅಟಕಾಮಮಿಡಿಅಕು.

2 pentandra, Linn. INDIA. ⊞ *Kan.* Komme soppu. ಕೊಮ್ಮೆಸೊಪ್ಪು. There are two varieties distinguished in Kanerese as the *bili* and *kempu*, the white and red.

3 decandra, Linn INDIA. ⊞

2 Orygia, FORSK.

1 decumbens, Forsk. TROP. ASIA & AFRICA. ⊞ Fl. greenish-purple.

3 Mollugo, LINN.

1 hirta, Thunb. TROP. ASIA. ⊞ Fl. green.

2 stricta, Linn. TROP. ASIA. ⊞ *Kan.* Parpataka soppu. ಪರ್ಪಾಟಕ ಸೊಪ್ಪು

3 spergula, Linn. TROP ASIA. ⊞ Fl. greenish.

4 Cerviana, Seringe, INDIA. ⊞ Fl. greenish. *Kan.* Kage purale gida. ಕಾಗೆಪುರಳೆಗಿಡ.

4 Tetragonia, AIT.

1 expansa, Ait. *Spinach of New Zealand.* ⊞ Fl. whitish-green *Kan.* Mullu basale soppu. ಮುಳ್ಳುಬಸಲೆ ಸೊಪ್ಪು

5 Mesembryanthemum, LINN.

1 crystallinum, Linn. *Ice Plant.* GREECE. ⊙

ORDER LX

UMBELLIFERÆ.

THE UMBELLATE FAMILY.

This is a large Order of herbs, or rarely shrubs, with hollow stems, much divided leaves, and small white

umbellate flowers. The alternate, sheathing, and usually finely dissected leaves are characteristic of the family, as are also the compound umbels and peculiar fruit. The latter is unique in its formation, and illustrates more than one technicality of structure. Nos. 4, 7, 8 and 10, are good types cf the family.

1 Hydrocotyle, Linn.

1 asiatica, Linn. *Indian Pennywort.* ♃ *Kan.* Ondelega soppu. ಒಂದೆಲಗ ಸೊಪ್ಪು.
3 rotundifolia, Roxb. ♃ A pretty little plant for bordering.

2 Apium, Linn. (Cultd. form)

1 graveolens, Linn. *Celery.* Europe. ♃ Fl. white.
2 petroselinum, Linn. *Parsley,* S. Europe. ♃ Fl. white.

3 Carum, Linn.

1 carui, Linn. *Caraway.* Europe. ⊙ Fl. white. *Kan.* Sopu gida. ಸೋಪುಗಿಡ.
2 nothum, C. B, Clarke. ⊙ Fl white.
3 Roxburghianum, Benth. *Indian Parsley.* ⊙ Fl. white.
4 copticum. Benth. *Bishop's weed.* ⊙ Temp. old World. Fl. white. *Kan.* Omu gida. ಓಮುಗಿಡ.

4 Pimpinella, Linn.

1 Heyneana, Wall India. ♃
2 monoica, Dalz. India. ♃ *Kan.* Kádu omu gida. ಕಾಡು ಓಮುಗಿಡ.

5 Fœniculum, Adans.

1 vulgare, Gaertn. *Fennel.* Europe. ♃ Fl. yellow.

6 Polyzygus, Dalz.

1 tuberosus, Dalz. India ♃ Fl. white.

7 Anthriscus, PERS.
1 cerefolium, Koch. *Chervil.* EUROPE. ⊙Fl. white.

8 Peucedanum, LINN.
1 graveolens, Benth. *Dill.* S. EUROPE. ♃ Fl. yellow *Kan.* Sabbasige soppu. ಸಬ್ಬಸಿಗೆ ಸೊಪ್ಪು.

9 Coriandrum, LINN.
1 sativum, Linn. *Coriander.* EUROPE. ⊙ Fl. white, or pale purple. *Kan.* Kottumbari soppu. ಕೊತ್ತುಂಬರಿಸೊಪ್ಪು.

10 Cuminum, LINN.
1 Cyminum, Linn. INDIA. *The Cummin-Seed Plant* Fl. white. *Kan.* Jirige gida. ಜೀರಿಗೆ ಗಿಡ.

11 Daucus, LINN. (Cultd. form)
1 Carota, Linn. *Carrot.* N. EUROPE. ♃ Fl. white. *Kan.* Gajina gadde. ಗಜಿನಗಡ್ಡೆ.

12 Pastinaca, LINN. (Cultivated form)
1 sativa, Linn. *Parsnip.* N. EUROPE. ♃

13 Arracacia, DC.
1 esculenta, DC. Venezuela. ♃ *Arracacha.*

14 Heracleum, LINN.
1 Hookerianum, W. and A. SOUTH INDIA. ♃ *Kan.* Kadu kotmire gida.

ORDER LXI.

ARALIACEÆ.

THE IVY FAMILY.

A tropical and sub-tropical family of trees, shrubs, or rarely herbs. Excepting that the plants are larger and more woody, the structural characters are closely

allied to those of the preceeding Order. The flowers are less numerous, more regular, and often of a greenish-yellow colour. The fruit possesses no carpophore, and is usually 3 or more celled. Species and varieties of the genus *Panax* are much cultivated in Indian gardens on account of their graceful forms and variegated foliage.

1 Aralia, LINN.

1 Guilfoylii, F. Muell. S. S. ISLANDS. s
2 Seiboldii, Hort. s
3 papyrifera, Hook. s *Rice Paper Plant.* FORMOSA.
4 Bonerppi. s
5 filicifolia. S. S. ISLANDS. s
6 Chabrierii. s
7 elegantissima, Bull. S. S. ISLANDS. s
8 species. s

2 Panax, LINN.

1 fruticosum Linn. INDIA. (Cultd.) s
2 cochleatum, DC. CHINA. s
3 Victoriæ, Bull. S. PACIFIC ISLANDS. s
4 rotundus. s
5 Veitchii. s
6 plumatum, Bull. S, S. ISLANDS. s
7 species. s
8 species. s
9 species. s

3 Heptapleurum, GÆRTN.

1 venulosum, Seem. INDIA. T *Kan.* Bili bhuthala mara. ಬಿಳಿ ಭೂತಾಳೆ ಮರ.

4 Brassaia, ENDL.

1 actinophylla, Endl. *Umbrella Tree.* E. AUSTR.
2 species ? T

5 Hedera, LINN.

1 Helix, Linn. *Common Ivy.* EUROPE. C

ORDER LXII.

CORNACEÆ.

THE DOGWOOD FAMILY.

This small Order of trees and shrubs is mostly confined to the temperate regions of Europe, Asia, and North America. *Leaves* opposite or alternate, simple, and exstipulate. *Flowers* hermaphrodite or unisexual, the whorls generally tetramerous, but occasionally otherwise. *Ovary* inferior. *Style* single. *Fruit* usually succulent. *Seeds* 1—4.

1 Alangium, LAM.

1 Lamarckii, Thw. INDIA. ♄ Fl. white. *Kan.* Ankole mara. ಅಂಕೋಲೆಮರ.

2 Cornus, LINN.

1 macrophylla, Wall. INDIA. ♄ Fl. whitish. *Kan.* Hadaga mara. ಹಡಗಮರ.

3 Benthamia, LINDL.

1 fragifera Lindl. NEPAL. ♄ (*See Cornus capitata* Wall.)

ORDER LXIII.

CAPRIFOLIACEÆ.

THE HONEY-SUCKLE FAMILY.

Shrubs and small trees, often of a straggling or climbing habit as in the honey-suckle. Indian species are mostly confined to the temperate Himalaya or to hill regions in the interior. The Order is distinguished from Rubiaceæ, to which it is closely allied, by its geographical position, habit, and the frequent irregularity of its flowers.

1 Lonicera, LINN.

1 Leschenaultii, Wall. *Nilgiri Honeysuckle.* ○ Fl. white and yellow.

2 caprifolium, Linn. *Woodbine.* EUROPE. H Fl. white fading to yellow.

ORDER LXIV.

RUBIACEÆ.

THE PERUVIAN BARK AND COFFEE FAMILY.

A large Order of trees, shrubs and herbs. Tropical and sub-tropical. *Leaves* opposite, simple, and usually entire, with interpetiolar stipules, or whorled and exstipulate, with angular stems as in the Madder plant. *Flowers* conspicuous in garden types, and usually tetramerous in their arrangement. *Ovary* inferior, 2—10—celled with one or more ovules in each cell. Nos. 1, 6, 14 and 20 are extreme types of the family.

1 Sarcocephalus, AFZEL.

1 cordatus, Miq. INDIA. T Fl. yellow.

2 Anthocephalus, A. RICH.

1 cadamba, Miq. INDIA. T Fl. orange with white stigma.

3 Adina, SALISB.

1 cordifolia, Hook. INDIA. T Fl. yellow. *Kan.* Bachanige or hettega mara. ಬಾಚನಿಗೆ ಹೆತ್ತೇಗ ಮರ.

4 Stephegyne, KORTH.

1 parvifolia, Korth. INDIA. T *Kan.* Kadagada mara.

5 Nauclea, LINN.

1 species ? ☿ *Kan.* Yettacada mara. ಎತ್ತಕದ ಮರ.

6 Wendlandia, BARTL,

1 Notoniana, Wall. INDIA. ☿ Fl. reddish-white. *Kan.* Bettada Kammagaggare mara. ಬೆಟ್ಟದ ಕಮ್ಮಗಗ್ಗರೆ ಗಿಡ.

2 glabrata, DC. INDIA. Shrub or small tree.

7 Hedyotis, LINN.

1 Auricularia, Linn. INDIA AND CEYLON. ⊙ Fl. lilac.

8 Oldenlandia, LINN.

1 corymbosa, Linn. INDIA. ⊙ Fl. white.

2 diffusa, Roxb. INDIA. ⊙ Fl. white.

3 umbellata, Linn. INDIA. ⊙ *Kan.* Cheriveru gida. ಚೆರಿವೇರು ಗಿಡ.

9 Mussænda, LINN.

1 frondosa, Linn. CEYLON. ♄ Fl. orange. Bract white.

10 Webera, SCHREB.

1 corymbosa, Willd. INDIA. ☿ Fl. white. *Kan.* Papati gida. ಪಾಪಟಿ ಗಿಡ.

11 Randia, LINN.

1 dumetorum, Lamk. INDIA. ☿ Fl. greenish yellow to white. *Kan.* Mangare mara. ಮಂಗಾರೆ ಮರ.

2 species? INDIA. ♄ *Kan.* Nagare gida. ನಗರೇ ಗಿಡ.

12 Gardenia, ELLIS.

1 Florida, Linn. CHINA. ♄ Fl. white.

2 gummifera, Linn. INDIA. s Fl. white. *Kan.* Bikke gida. ಬಿಕ್ಕೆಗಿಡ.

3 latifolia, Ait. INDIA. T Fl. white changing to yellow.

4 species. INDIA. Small deciduous tree. Large. white, companulate flowers; solitary or in pairs.

13 Knoxia, LINN.

1 corymbosa, WILLD. ⊙ Fl. pale-purple.

14 Canthium, LAM.

1 parviflorum, Lam. *Carray Cheddie.* INDIA. s Fl. yellowish. *Kan.* Kare gida. ಕಾರಗಿಡ.

2 didymum, Roxb, INDIA. s Fl. whitish. *Kan.* Yeddaranike gida. ಎದ್ದರಾನಿಕೆಗಿಡ.

15 Vangueria, JUSS.

1 spinosa? Roxb. INDIA. s Fl. pale green. Labelled *edulis.*

16 Ixora, LINN.

1 coccinea, Linn. *Scarlet Ixora.* CHINA. s Fl. scarlet.

2 parviflora, Vahl. *Torch Tree.* INDIA. T Fl. white. *Kan.* Gorivi mara. ಗೊರವಿಮರ.

3 Bandhuca, Roxb. *Jungle Geranium.* INDIA. s Fl. scarlet.

4 alba, Roxb, s CHINA, (See *I. stricta*, Roxb.) Fl. white.

5 acuminata, Roxb. INDIA. s Fl. white.

6 cuneifolia? Roxb. INDIA. s Fl. rose-coloured.

7 species. s Fl. white. Probably *polyantha*, W.

17 Pavetta, LINN.

1 indica, Linn. *Pavutty Kayi.* INDIA. s Fl. white. *Kan.* Pavate mara. ಪಾವಟೆ ಮರ.

18 Coffea, LINN.

1 arabica, Linn. *Arabian Coffee.* s Fl. white. *Kan.* Kapi gida. ಕಾಫಿಗಿಡ.

2 Liberica, Hiern (?) *Liberian Coffee.* T Fl. white.

19 Morinda, LINN.

1 citrifolia var. bracteata, TROP ASIA. T Fl. white.

2 umbellata, Linn. INDIA AND CEYLON. s Fl. white. *Tamil.* Nunámaram. ನುನಾಮರಂ.

20 Psychotria, LINN.

1 species. Shrub with large, simple, glossy leaves. terminal, paniculate inflorecence, and berried fruit.

21 Spermacoce, LINN.

1 hispida, Linn. A weed. INDIA. Fl. blue or whitish.

22 Rubia, TOURNEF.

1 cordifolia, Linn. *Indian Madder*, or *Munjeet.* INDIA. H

2 tinctorum, Linn. *Madder.* EUROPE. H Fl. greenish yellow.

23 Pentas, BENTH.

1 carnea, Benth. S. AFRICA. s Fl. rosy-flesh.

24 Hamelia, JACQ.

1 patens. Jacq. Hispaniola. s or T Fl. orange-red.

25 Cinchona, LINN.

1 succirubra, Wedd. *Peruvian Red Bark.* S. AMER. T

2 calisaya, Wedd. *Yellow Bark of Bolivia.* S. AMER. T

3 condaminea, *Rusty Crown Bark.* S. AMER. T
4 species. S. AMER. T

26 Rondeletia, LINN.

1 speciosa Lodd. MEXICO. S Fl. red.

27 Manettia, MUTIS.

1 cordifolia, Mart. BRAZIL. O

28 Catesbæa, LINN.

1 spinosa, Willd. S. AMER. S Fl. green to pale lemon.

29 Hoffmania, SWARTZ.

1 robusta. H

ORDER LXV

DIPSACEÆ

THE TEAZEL FAMILY.

A small Order of herbs or rarely shrubs, mostly confined to the Old World. It possesses the general characters of Compositæ, but the *anthers* are distinct, and not syngenesious.

1 Dipsacus, LINN.

1 fullonum, Linn. EUROPE. *Fullers Teazel.* H Fl. purple.

2 Scabiosa, LINN.

1 atropurpurea, Linn. EUROPE. *Scabious.* H Fl. dark purple.
2 ,, var. nana. H Fl. maroon-crimson to white.

3 atropurpurea, var. striata. ⌘ Fl. streaked and spotted.
4 " var. foliis aureis. ⌘ Yellow foliage.

ORDER LXVI.

COMPOSITÆ.

THE COMPOSITE FAMILY.

Herbs, shrubs, or rarely trees; the latter being soft wooded, and mostly indigenous to South America. This is the largest Order of flowering plants, comprising about 8,000 known species from all parts of the world. It is also very clearly defined by the following characters:—

1. The usually herbaceous nature of species.
2. The capitate inflorescence, *i. e.*, the gathering into a single dense head of many individual florets, so that the whole might be mistaken for a single large flower. The daisy, for example, is often looked upon as a simple flower.
3. The united or syngenesious anthers.
4. The inferior ovary containing one erect ovule.

Being a very large family, Compositæ is divided into several tribes and numerous sub-tribes. The modifications of structure found under the headings *Tubuliflorœ*, and *Liguliflorœ* should be carefully noted by the Indian student. Nos. 41 and 46 represent these two Sub-Orders.

1 Centratherum, CASS.

1 courtallense, Benth. INDIA. ⌘ Fl. yellow.

2 Vernonia, SCHREB. *Speedwell.*

1 cinerea, Less. *Fleabane.* EUROPE. ⊙ Fl. whitish. *Kan.* Kari hindi soppu. ಕರಿಂಡಿ ಸೊಪ್ಪು.

2 divergens, Benth. INDIA. ♃ Fl. reddish brown to dirty white.

3 arborea, Ham. NILGIRIS. ♄ Fl. whitish-yellow.

4 anthelmentica, Willd. INDIA. ⊙ Fl. reddish-purple.

5 elæagnifolia, DC. INDIA. ♃ Fl. white.

3 Elephantopus, LINN.

1 scaber, Linn. TROP. ASIA. ♃

4 Adenostemma, FORST.

1 viscosum, Forst. INDIA AND CEYLON. ⊙

5 Ageratum, LINN.

1 mexicanum, DC. MEXICO. ⊙ Fl. blue, lavender, and white.

2 conyzoides, Linn. INDIA. ⊙ Fl. pale-blue to white.

6 Solidago, LINN. *Golden Rod.*

1 latifolia, Linn. N. AMERICA. ♃ Fl. yellow.

7 Eupatorium, LINN. *Hemp-agrimony, and Thoroughwort.*

1 Reevesii, Wall. NORTH INDIA. ♃ Fl. whitish.

2 ageratoides, L. H. N. AMERICA. Fl. white.

8 Dichrocephala, DC.

1 latifolia, DC. INDIA. ⊙ Fl. greenish-yellow.

9 Grangea, ADANSON.

1 madraspatana, Poir. INDIA. ⊙ Fl. yellow. *Kan.* Muttu kárási gida. ಮುತ್ತು ಕಾರಾಸಿ ಗಿಡ.

10 Brachycome, CASS.

1 diversifolia, F. et. M. *Swan River Daisy.* ⊙ Fl. blue.
2 iberidifolia, Benth. W. AUSTRLIA. ⊙ Fl. blue, purple or white.

11 Aster, LINN. *Michælmas Daisy.*

1 Amellus, Linn. EUROPE. ♃ Fl. bright purple.
2 cordifolius, Linn. CANADA. ♃ Fl. white to mauve or purple.
3 punicens, Linn. Canada ♃

12 Callistephus, CASS.

1 chinensis, Nees. *China Aster.* ⊙ Fl. various.

13 Erigeron, LINN. *American Fleabane.*

1 linifolius, Willd. N. AMERICA.

14 Conyza, LESS.

1 stricta, Willd. INDIA. ⊙ Fl. reddish-yellow. *Kan.* Bettada davana gida. ಬೆಟ್ಟದವನ ಗಿಡ.

15 Blumea, DC.

1 amplectens, DC. INDIA. ⊙ Fl. reddish-yellow.
2 do. var. tenilla? INDIA. ⊙
3 bifoliata, DC. INDIA AND CEYLON. ⊙ Fl. yellowish.
4 Wightiana, DC. INDIA. ⊙ Fl. purplish. *Kan.* Gabbu soppu. ಗಬ್ಬುಸೊಪ್ಪು.
5 lacera, DC. INDIA AND CEYLON. ⊙ Fl. yellow. *Kan.* Gándhárí gida. ಗಾಂಧಾರಿ ಗಿಡ.
6 species. Possibly a variety of the last named. Fl. reddish-yellow.

16 Laggera, SCH. BIP.

1 alata, Schultz-Bip. INDIA. ♃ Fl. pale purple. *Kan.* Bettada kuppe gida. ಬೆಟ್ಟದಕುಪ್ಪೆ ಗಿಡ.

17 Pluchea, CASS.

1 indica, Less. INDIA. s Fl. whitish.
2 tomentosa, DC. INDIA. s Fl. reddish.

18 Sphæranthus, WILLD.

1 amaranthoides, Burm. INDIA. ⊙
2 africanus, Linn. INDIA AND AFRICA. ⊙
3 indicus, Linn. INDIA AND CEYLON. ⊙ Fl. reddish purple. *Kan.* Múdugattina or Bódu kadale soppu. ಮೂಡುಗಟ್ಟಿನ (ಬೋಡುಕಡಲೆ) ಸೊಪ್ಪು.

This weed is often mixed with stored grain to preserve the latter from the attacks of insects.

19 Filago, LINN.

1 species (?) INDIA. A prostrate woolly herb. Fl. yellow.

19½ Anaphalis, DC.

1 oblonga, DC. INDIA AND CEYLON. Fl. whitish-pink.

20 Gnaphalium, LINN.

1 luteo-album, Linn. INDIA. ⊙ Fl. whitish yellow.
2 indicum, Linn. INDIA. ⊙ *Indian Cudweed.* Fl. yellowish.

21 Helichrysum, PERS. *Everlasting Flower*

1 bracteatum, Willd. *Gold Sunflower.* S. AUSTR. ⊙ Fl. yellow, crimson, and white.
2 orientale, *The French Immortelle.*

22 Vicoa, CASS.

1 auriculata, Cass. INDIA. ⊙ Fl. yellow. *Kan.* Honnavarike soppu. ಹೊನ್ನವರಿಕೆ ಸೊಪ್ಪು.

23 Lagascea, CAV.

1 mollis, Cav. TROP. AMER. ⊙ An abundant weed in garden land. Fl. white.

24 Xanthium, LINN.

1 strumarium, Linn. INDIA. ⊙ Fl. greenish white. *Kan.* Maralu ummatti gida. ಮರಳು ಉಮ್ಮತ್ತಿ ಗಿಡ.

25 Siegesbeckia, LINN.

1 orientalis, Linn. INDIA. ⊙ Fl. yellow.

26 Eclipta, LINN.

1 alba, Hassk. INDIA. ⊙ Fl. white. *Kan.* Garugalu soppu. ಗರುಗಲು ಸೊಪ್ಪು. A much prized medicinal weed.

27 Blainvillea, CASS.

1 latifolia, DC. Tropics everywhere. ⊙ Fl. yellowish.

28 Wedelia JACQ.

1 calendulacea, Less. INDIA. ⊕

29 Spilanthus, LINN. *Button Flower.*

1 Acmella, Linn.
2 „ var. calva, Clarke. INDIA. ⊙ Fl. yellow. *Kan.* Sanna vana mugali gida. ಸಣ್ಣ ವನಮುಗಳಿ ಗಿಡ.
3 „ var. oleracea, Clarke. INDIA. ⊙ Fl. yellow. *Kan.* Dodda vana mugali gida. ದೊಡ್ಡ ವನ ಮುಗಳಿ ಗಿಡ.

30 Guizotia, CASS.

1 abyssynica, Cass. TROP. AFRICA. ⊙ Fl. yellow. *Kan.* Hutchu yellu gida. ಹುಚ್ಚು ಎಳ್ಳುಗಿಡ.

The foolish-oil plant. A common field crop in Mysore.

31 Bidens, Linn.

1 pilosa, Linn. India. *Bur-marigold.* Fl. white. to pale yellow.
„ var. bipinnata, India. ⊙

32 Achillea, Linn.

1 Millefolium, Linn. *Yarrow or Milfoil.* Europe. ♃ Fl. pinkish purple to dull white.

33 Chrysanthemum, Linn. *Ox-eye.*

1 indicum, L. Trop. Asia. ♃ *Kan.* Sevantige gida. ಸೇವಂತಿಗೆ ಗಿಡ.

2 coronarium, Linn. S. Europe. ♃ *Crown Daisy.*
3 tricolor, Linn. Europe. ♃ (carinatum ?)
4 frutescens. Europe. *The Marguerite.*
} Fl. various.

34 Cotula, Linn.

1 Australis, Hook. fil. C. G. Hope. ⊙ Fl. yellow.

35 Artemisia, Linn.

1 Abrotanum, Linn. Europe. *Southernwood* ♃ *Kan.* Davana gida. ದವನ ಗಿಡ
2 vulgaris, Linn. India. ♃ *Kan.* Manji patre gida. ಮಂಜಿಪತ್ರೆ ಗಿಡ.
3 Absinthium, Linn. N. India and Asia. Fl. yellow. *Wormwood.* ♃

36 Gynura, Cass.

1 nepalensis, DC. N. India and Java. ♃ Fl. orange-yellow.

37 Emilia, CASS.

1 sonchifolia, DC. INDIA. ⊙ Fl. purple.

38 Notonia, DC.

1 grandiflora, DC. WESTERN PENINSULA. Fl. yellow.

39 Senecio, LINN.

1 Hokenackeri, Hook. INDIA. ♃ Fl. reddish-yellow. *Kan.* Kadu gobli gida. ಕಾಡುಗೊಬ್ಬಿ ಗಿಡ.
2 tenuifolius, Burm. INDIA. ⊙ Fl. yellowish.
3 candicans, DC. INDIA. ♃ Fl. pale yellow.
4 species. INDIA. ⊙

40 Calendula, NECK.

1 officinalis, Linn. *Common Marigold.* S. EUROPE. ⊙ Fl. yellow.

41 Echinops, LINN.

1 echinatus, Roxb. A native weed. ⊙ Fl. white. *Kan.* Brahmadande gida. ಬ್ರಹ್ಮದಂಡೆ ಗಿಡ.

42 Tricholepis, DC.

1 radicans, DC. INDIA. ⊙ Fl. lilac-brown. *Kan.* Kusube soppu. ಕುಸುಬೆ ಗಿಡ.
2 amplexicaulis, Clarke. INDIA. ⊙

43 Centaurea, LINN. *Knapweed.*

1 cyanus, Linn. *Cornflower or Bluebottle.* EUROPE. ⊙ Fl. blue to purple, and white.
2 cineraria, Linn. EUROPE. ♃
3 argentea, Linn, CRETE. ♃ Foliage white.
4 calcitrapa, Linn. INDIA. ♃ Fl. purple.

44 Carthamus, LINN.

1 tinctorius, Linn. *Safflower.* EGYPT. ⊙ Fl. orange-red. *Kan.* Kusumba gida. ಕುಸುಂಬ ಗಿಡ. Cultivated in India.

45. Dicoma, Cass.

1 tomentosa, Cass. India and Trop. Africa. Fl. whitish. ⊙ *Kan.* Sanni gida. ಸನ್ನಿಗಿಡ.

46 Cichorium, Linn.

1 I'ntybus, Linn. *Succory.* Europe. ⊙ Fl. blue.
2 Endivia. *Endive.* Asia. ⊙ *Hind.* Kácinipatta. ಕಾಸಿನಿಪತ್ತ.

47 Taraxacum, Hall.

1 officinale, Wigg. Europe. ♃ *Dandelion.* Fl. yellow.

48 Lactuca, Linn.

1 sativa, Linn. *Lettuce.* S. Europe. ⊙ *Kan.* Saládi. ಸಲಾದಿ.
2 Heyneana, DC. India. ⊙ *Kan.* Hálmulangi soppu. ಹಾಲ್ಮುಲಂಗಿ ಸೊಪ್ಪು.

49 Sonchus, Linn.

1 oleraceus, Linn. *Sow Thistle.* Europe. ⊙ Fl. yellow.

50 Farfugium, Lindl.

1 grande, Lindl. China. ♃ Fl. yellow.
2 Do var. ♃ Leaves blotched or spotted white.
3 Do. var. ♃ Leaves blotched or spotted yellow.

51 Flauria, Benth.

1 australasica, Benth. Aust. ⊙ A naturalised weed with dense heads of small orange-yellow flowers.

52 Zinnia, Linn.

1 elegans, Jacq. America. ⊙
2 multiflora, Linn. Mexico. ⊙
3 Darwinii, Hort. ⊙
4 Haagiana, Hort. ⊙ Fl. yellow.

} Fl. various.

53 Argyranthemum. WEBB.
1 frutescens, Schultz. Teneriffe. ♃ Fl. white.

54 Cosmos, CAV.
1 sulphureus, Cav. ⊙ Fl. rosy-purple.

55 Cacalia, BURM. (*See Vernonia*)
1 sempervirens, Spr. C. G. HOPE. ♃

56 Gaillardia, N. AMERICAN HERBS.
1 grandiflora, Hort. ⊙
2 picta coccinea, Hort. ⊙ } Fl. varicus.
3 hybrida. Hort. ⊙

57 Gazania, GAERT.
1 splendens? *Treasure Flower.* C. G. HOPE. ♃ Fl. yellow.

58 Helenium, LINN.
1 tenuifolium, Nutt. N. AMER. ♃ Fl. yellow.

59 Tagetes, LINN.
1 erecta, Linn. *African Marigold.* ⊙ MEXICO. Fl. orange yellow. *Kan.* Chendu mallige gida. ಚಂಡುಮಲ್ಲಿಗೆ ಗಿಡ.
2 patula, Linn. *French Marigold.* ⊙ MEXICO. Fl. mostly bright yellow.
3 pumila, Fl. yellow.

60 Calliopsis, REICHB. *Tickseed.*
1 aristata, AMER. ⊙ Fl. large, golden-yellow.
2 Drummondii, Don. ⊙ AMER. Fl. golden-yellow.
3 tinctoria. ⊙ Fl. crimson-brown tipped with orange-yellow.
4 coronata, ⊙ Fl. orange-yellow, with crimson circle.

61 Bellis, LINN.
1 perennis, Linn. *The Daisy.* EUROPE. ♃ Fl. white with yellow centre.

2 do. fl. pl. ♃ Fl. white to pinkish, or reddish white.

62 Cineraria, LINN.
1 maritima, Linn. S. EUROPE. ♃

63 Sanvitalia, CAVAN.
1 procumbens, Lam. MEXICO. ⊙ Fl. yellow.

64 Pyrethrum, GAERTN. *Feverfew.*
1 carneum, Bibr. CAUCASUS. ♃
2 Parthenium, Smith. EUROPE. ♃
3 Parthenifolium, aureum, Willd. CAUCASUS. ♃

65 Cynara, VAILL.
1 scolymus, Linn. *Globe Artichoke.* S. Europe. ♃ Fl. purple.

66 Dahlia, CAV.
1 variabilis, Desf. MEXICO. ♃ Fl. various.

67 Helianthus, LINN.
1 annuus, Linn. *Sunflower.* S. AMER. ⊙ Fl. yellow. *Kan.* Hottutirugana, or Súryakánti gida. ಹೊತ್ತುತಿರುಗನ (ಸೂರ್ಯಕಾಂತಿ) ಗಿಡ.
2 argyreus, Linn.
3 tuberosus, Linn. *Jerusalem Artichoke.* BRAZIL.
4 species.

68 Polymnia,
1 grandis, AMERICA. Shrub or small tree. Fl. large, white with yellow centre.

69 Vittadenia,
1 australis, *Australian Daisy.* ♃ Fl. pinkish changing to white. Much cultd. at Bangalore.

70 Verbesina, LINN.
1 gigantea, Linn. JAMAICA. Fl. large, yellow. ♄

ORDER LXVII.

CAMPANULACEÆ.

THE BELL-FLOWER FAMILY.

A large family of herbaceous plants (rarely soft wooded shrubs) found in nearly all parts of the world. It includes two well marked tribes, *viz.* *Lobelieæ* with an irregular 2—lipped corolla, as in species of No. 2, and *Campanuleae* with its regular bell-shaped flower as in No. 6. The cohesion of anthers in *Lobelieae*, and rarely in *Campanuleae*, is another diagnostic. The flowers are not produced in heads as in *Compositae*.

1 Pratia, GAUD.

1 begonifolia, Lindl. INDIA. ♃

2 Lobelia, LINN.

1 nicotianæfolia, Heyne. INDIA. ♃ Fl. white.
2 succulenta, Blume. *Neilgherry Grass.* ♃ Fl. pinkish-white.
3 longiflora, W. W. Indies. ♃ Fl. white.
4 cardinalis, Linn. N. AMER. ♃ Fl. scarlet.
5 erinus, Linn. S. AFRICA. ⊙ Fl. blue or white.
6 ramosa, Benth. AUSTR. ⊙ Fl. blue.
7 erinoides, Linn. ⊙ Fl. blue.
8 trialata, Ham. INDIA. ⊙
9 radicans? Thunb. INDIA. A weed of moist places.
10 species? Received from Madras. Fl. reddish.
11 fulgens, ♃ *Cardinal Flower.* Fl. rich vermilion.

3 Cephalostigma, A. DC.

1 Schimperi, Hochst. INDIA. ♃ Fl. blueish.
2 flexuosum, H. F. and T. INDIA. ♃

4 Wahlenbergia, SCHRAD.

1 agrestis, Alph. INDIA. ⊙ (See. *W. gracilis*, D.C.) Fl. blue.

5 Sphenoclea, GAERTN.

1 zeylanica, Gaertn. INDIA. ⊙ Sub-aquatic.

6 Campanula, LINN. *Hairbell.*

1 pyramidalis, Linn. *Bell-flower.* S. EUROPE. ♃ Fl. blue or white.
2 Vidallii, Hook. AZORES. ♃ Fl. purple.
3 Rapunculus, Linn. S. EUROPE. ♃ *Rampion.* Fl. purplish blue.
4 medium, Linn. S. EUROPE. *Canterbury Bell.* ♃ Fl. various.
5 isophylla, ♃ *Ligurian Hairbell.* Fl. bright blue with white centre.

7 Trachelium, LINN. *Blue Throatwort.*

1 cæruleum, Linn. *Throatwort.* SARDINIA. ♃ Fl. blue.

ORDER LXVIII

PLUMBAGINACEÆ.

THE THRIFT FAMILY.

A small Order of herbs and undershrubs mostly confined to the sea-shores of various countries. The blue flowered shrub which lines the central walks in the Lal-Bagh (*Plumbago capensis*) is a type of the family. *Leaves* alternate, simple. *Flower* regular, and in parts of five. *Ovary* superior, one-celled, branching into five styles. Observe the visced hairs which cover the calyx of the type species.

1 Plumbago, Linn. *Leadwort.*

1 zeylanica, Linn. India. s Fl. white. *Kan.* Bili chitramúla gida. ಬಿಳಿ ಚಿತ್ರಮೂಲ ಗಿಡ.
2 capensis, Thunb. C. G. Hope. s Fl. blue. *Kan.* Chitramúla gida. ಚಿತ್ರಮೂಲ ಗಿಡ.
3 rosea, Linn. Moluccas. s Fl. reddish-pink. *Kan.* Kempu chitramúla gida. ಕೆಂಪುಚಿತ್ರಮೂಲ ಗಿಡ. No. 1 seems to be truly wild in some parts of Mysore.

Order LXIX.

PRIMULACEÆ.

THE PRIMROSE FAMILY.

A small Order of herbs inhabiting the temperate and alpine regions of the northern hemisphere. No. 2 is the only wild species here, and it properly belongs to Europe and West Asia. Radical leaves, perfect, showy flowers and small capsular fruits, are general features of the group. Note also the free central placentation.

1 Primula, Linn.

1 vulgaris, Huds. *Common Primrose.* Europe. Fl. yellow and various.

2 Anagallis, Linn.

1 arvensis, Linn. *Pimpernel.* Europe. ⊙ *Kan.* Súryakánti soppu. ಸೂರ್ಯಕಾಂತಿ ಸೊಪ್ಪು.

3 Cyclamen, Linn.

1 persicum, Mill. Cyprus. *Sow Bread.* ♃ Fl. purplish red, to violet-white and rose.

ORDER LXX.

MYRSINEÆ.

THE ARDISIA FAMILY.

Tropical shrubs and trees. Closely allied to the preceeding family, from which, however, they are clearly separated by position, size, and texture, *Leaves* simple, alternate, gland-dotted and exstipulate. *Flowers* hermaphrodite or more rarely unisexual. Placentation free central. *Fruit* commonly a small berry with one or more seeds.

1 Mæsa, FORSK.
1 indica, Wall. INDIA. T

2 Embelia, BURM.
1 robusta, Roxb. INDIA. S

3 Ardisia, SWARTZ.
1 involucrata, Kurz. From B. G. CALCUTTA, Fl. pink.
2 polycephala. Wall. W. INDIES. S Fl. pale rose to pink.
3 humilis, Vahl. INDIA S Fl. pink. *Kan.* Bódina gida. ಬೋಡಿನ ಗಿಡ.
4 species from Java, by Beddome. S Fl. reddish pink.

4 Jacquinia, LINN.
1 ruscifolia, Jacq. S. AMER. S Fl. white.
2 armillaris W. W. INDIES. S
3 aristata, Fl. dull red.

ORDER LXXI.

SAPOTACEÆ.

THE SAPODILLA FAMILY.

This tropical Order of trees and shrubs is generally marked by its milky juice, and strongly scented flowers;

the latter mostly affecting a creamy-white colour. *Leaves* alternate, leathery, entire, and usually exstipulate. *Flowers* regular in axillary clusters. *Stamens* epipetalous, and 5, 10, or 15 in number. But additional rudimentary stamens (*staminodes*) are frequently present. *Ovary* superior. *Fruit* a 1—8 seeded berry.

1 Chrysophyllum, LINN.

1 cainito, Linn. W. INDIES. Fl. whitish. *The Star Apple.*

2 Sideroxylon, LINN,

1 inerme, Linn. *Iron Wood.* C. G. HOPE. ☿ Fl. greenish.

3 Bassia, LINN.

1 latifolia, Willd. *Mahwa Tree.* INDIA. Fl. whitish-yellow or creamy. *Kan.* Ippe mara. ಇಪ್ಪೆಮರ.

2 longifolia, Linn. *Wild Sapota Tree.* INDIA. *Kan.* Kádu ippe mara. ಕಾಡು ಇಪ್ಪೆಮರ.

4 Mimusops, LINN.

1 elengi, Linn. INDIA. ☿ Fl. white. *Kan.* Pagade mara. ಪಗಡೆಮರ.

2 hexandra, Roxb. INDIA. ☿

5 Achras, LINN.

1 sapota, Linn. *Sapodilla Tree.* W. INDIES. Fl. whitish.

ORDER LXXII.

EBENACEÆ.

THE EBONY FAMILY.

Tropical shrubs and trees. Represented in India by two genera, *Maba* and *Diospyros*. *Leaves* as in *Sapotaceæ* generally. *Flowers* diœcious, subsessile or

shortly pedicellate, with an articulation near the apex of each pedicel, commonly bracteate. *Calyx* inferior and often accrescent in the fruit. *Stamens* equal to, or 2—3 times as many as the corolla lobes. With or without staminodes. *Ovary* superior, with 2—8 styles. *Fruit* conspicuous and usually berried.

1 Diospyros, LINN.

1 sapota, Roxb. MAURITIUS. ☥
2 embryopteris. Pers. *Gaub Tree.* INDIA. Fl. white. *Kan.* Olle túpra mara. ಒಳ್ಳೆ ತೂಪ್ರಮರ.
3 montana, Roxb. *Mountain Ebony.* INDIA. ☥ Fl. green. *Kan.* Jagalaganti mara. ಜಗಳಗಂಟಿ ಮರ.
4 Kaki, Linn. INDIA. ☥
5 Ebenum, Kœnig. CEYLON AND INDIA. *The Ebony Tree. Kan.* Bálé mara. ಬಾಳೆಮರ.
6 Tupru? Buch-Ham. INDIA. A small tree with the foliage of the Jamoon. Fruit the size of a crab apple and turning bright yellow. *Kan.* Túpra mara. ತೂಪ್ರಮರ.

ORDER LXXIII.

OLEACEÆ.

THE OLIVE AND JASMINE FAMILY.

An Old World family of trees and shrubs, characterised by long domestic use and a few technical points of interest. Of the latter note the want of symmetry in the flower, the stamens being only two in number while the sepals and petals are usually in fours and fives. Again, the ovary is 2—celled, hence we have the reproductive organs made up of two stamens and the same number of carpels. The tribe *Jasmineæ* has many species affording deliciously fragrant white and yellow flowers.

(TRIBE JASMINEÆ.)

1 Jasminum, LINN. All scandent shrubs.

1 sambac, Ait. *Double Jasmine.* TROP. ASIA. Fl. white. *Kan.* Dundu (ælusuttina) mallige gida. ದುಂಡು (ಏಳುಸುತ್ತಿನ) ಮಲ್ಲಿಗೆ ಗಿಡ.

2 „ var. fl. pl. TROP. ASIA. *Kan.* Katte mallige gida. ಕತ್ತೆ ಮಲ್ಲಿಗೆ ಗಿಡ.

3 grandiflorum, Linn. INDIA. ○ Fl. white, slightly streaked with red. *Kan.* A'ne jáji mallige gida. ಆನೆ ಜಾಜಿ ಮಲ್ಲಿಗೆ ಗಿಡ.

4 officinale. Linn. *Common Jasmine.* TROP ASIA. *Kan.* Sanna jáji mallige gida. ಸಣ್ಣ ಜಾಜಿಮಲ್ಲಿಗೆ ಗಿಡ.

5 odoratissimum, Linn. *Yellow Jasmine.* MADEIRA.

6 latifolia, Roxb. INDIA. *Broad leaved.* (See *J. arborescens*, Roxb.)

7 angustifolium, Vahl. INDIA. Fl. white.

8 rigidum, Zenker. INDIA. Fl. white. *Kan.* Kádu mallige gida. ಕಾಡು ಮಲ್ಲಿಗೆ ಗಿಡ.

9 auriculatum, Vahl. INDIA. Fl. white. *Kan.* Sanna malle gida. ಸಣ್ಣ ಮಲ್ಲೆಗಿಡ.

10 flexile, Vahl. INDIA. Fl. white. *Kan.* Bána mallige gida. ಬಾಣ ಮಲ್ಲಿಗೆ ಗಿಡ.

11 humile, Linn. INDIA. Fl. yellow. *Kan.* Hasaru jáji mallige gida. ಹಸರು ಜಾಜಿಮಲ್ಲಿಗೆ ಗಿಡ.

12 species. INDIA. Fl white. *Kan.* Súji mallige gida. ಸೂಜಿ ಮಲ್ಲಿಗೆ ಗಿಡ.

13 pubescens, Willd. INDIA. ○ Fl. white. *Kan.* Básti mallige gida. ಬಾಸ್ತಿ ಮಲ್ಲಿಗೆ ಗಿಡ.

14 species. INDIA. *Kan.* Eruvantige mallige gida. ಇರುವಂತಿಗೆ ಮಲ್ಲಿಗೆ ಗಿಡ.

No. 14 may be *J. Sambac* var. *Heyneana*, Wall.

15 species. INDIA. *Kan.* Gundu mallige gida. ಗುಂಡುಮಲ್ಲಿಗೆ ಗಿಡ. This popular plant is evidently a variety of No. 1.

2 Nycthanthes, LINN.

1 arbor-tristis, Linn. INDIA. s Fl. pale yellow. *Kan.* Párijáta gida. ಪಾರಿಜಾತ ಗಿಡ.

(TRIBE OLEINEÆ.)

3 Olea, LINN.

1 europea, Linn. *The Olive.* SYRIA AND GREECE. T
2 species, A small spreading tree.

4 Ligustrum, LINN.

1 robustum. *Indian Privet.* T Fl. white and fragrant.

5 Myxopyrum, BLUME.

1 smilacifolium, Blume. INDIA. c Fl. yellowish.

6 Noronhia, THOUARS.

1 emarginata, Poir. MADAGASCAR. T Fl. white.

ORDER LXXIV

SALVADORACEÆ.

A very small Order of trees and shrubs. Closely allied to *Oleaceæ* from which it is determined by having 4 stamens.

1 Azima, LAMK.

1 tetracantha, Lamk. INDIA. c s *Kan.* Bili wuppi gida. ಬಿಳಿ ಉಪ್ಪಿ ಗಿಡ.

ORDER LXXV.

APOCYNACEÆ.

THE DOGBANE FAMILY.

A tropical family of shrubs, rarely trees, usually of a climbing habit and possessing a milky juice. *Leaves* opposite or whorled, exstipulate, entire, and commonly

glabrous or shining. *Flowers* in terminal or axillary clusters, handsome, white and yellow colours prevailing. Parts in fives, or in fours by suppression. The morphology of the pistil is unique in this Order, the carpels being often free at the base but united in the style and stigma. Observe too the hour-glass form of the latter. Nos. 1, 5, 10 and 15, are good specimens for dissection.

1 Carissa, LINN.

1 carandas, Linn. INDIA. s Fl. white. *Kan.* Korinda gida. ಕೊರಿಂಡ ಗಿಡ. The fruit is edible and nice.

2 spinarum, A. DC. INDIA. ○ s Fl. white. *Kan.* Náyi kalame gida. ನಾಯಿಕಲಮೆ ಗಿಡ.

3 edulis.

4 macrophylla, Wall. INDIA. ○ s Fl. white.

The vernacular name given to No. 1 applies more or less to all the indigenous species.

2 Rauwolfia, LINN,

1 canescens, Linn. JAMAICA. s Fl. whitish.

3 Cerbera, LINN.

1 Odollam, Gaertn. Sea-shore and salt swamps. INDIA AND CEYLON. T Fl. white.

4 Kopsia, BLUME.

1 fruticosa, A. DC. JAVA. s Fl. pink and red.

5 Vinca, LINN.

1 major, Linn. *Periwinkle.* EUROPE. ○ Fl. blue.

2 rosea Linn. INDIA. s Fl. rosy red. *Kan.* Kempu kási ganugalu gida. ಕೆಂಪು ಕಾಸಿ ಗಣುಗಲು ಗಿಡ.

3 „ var alba. INDIA. s Fl. white. *Kan.* Bili kási ganugalu gida. ಬಿಳಿಕಾಸಿ ಗಣುಗಲು ಗಿಡ.

6 Plumiera, LINN.

1 acutifolia, Poiret. TROP. AMER. Naturalised in India. *Pagoda Tree.* Fl. yellowish-white or

cream. *Kan.* Déva ganugalu mara. ದೇವ ಗಣುಗಲು ಮರ.

2 alba, Jacq. W. INDIES. T Fl. pure white.

3 species. S Fl. white.

7 Alstonia, BR.

1 scholaris, Brown. INDIA. T Fl. greenish-white. *Kan.* Jantala mara. ಜಂತಲ ಮರ

2 venenatus, Brown. INDIA. S *Kan.* Addasarpa gida. ಅಡ್ಡಸರ್ಪಗಿಡ.

8 Holarrhena, BR.

1 antidysenterica, Wall. INDIA. T Fl. white.

9 Tabernæmontana, LINN.

1 coronaria, R. Br. INDIA. S Fl. white. *Kan.* Nandi batlu gida. ನಂದಿಬಟ್ಲು ಗಿಡ.

2 „ var. fl. pl. Fl. white.

3 species. S Fl. large white with creamy centre.

10 Vallaris, R. BR.

1 dichotoma, Wall. INDIA. C (See *V. Heynei*, Spreng.) Fl. white, fragrant. *Kan.* Bugadi gida. ಬುಗಡಿ ಗಿಡ.

11 Wrightia, R. BR.

1 tinctoria, R. Br. *Ivory Wood.* INDIA. T Fl. white. *Kan.* Beppále mara. ಬೆಪ್ಪಾಲೆ ಮರ.

2 tomentosa, var. Mollissima. INDIA. T Fl white. *Kan.* Kádu ganugalu gida. ಕಾಡು ಗಣುಗಲು ಗಿಡ.

12 Nerium, LINN.

1 odorum, Solan. *Oleander.* INDIA. S Fl. white, rose, or crimson, fragrant and showy. *Kan.* Ganagalu gida. ಗಣಗಲು ಗಿಡ.

2 „ var. alba. S Fl. white.

3 „ var. fl. pl. S Fl. rose or crimson.

13 Beaumontia, Wall.

1 grandiflora, Wall. India. ○ Fl. white, showy.
2 jerdoniana, Wight. India. ○ Fl. white, showy.

14 Thevetia, Juss.

1 neriifolia, Juss. *The Exile Tree.* W. Indies. Fl. yellow, showy.

15 Allamanda, Willd.

1 neriifolia, Hook. S. Amer. s Fl. yellow.
2 cathartica, Linn. Amer. s Fl. yellow.
3 grandiflora (?) Pohl. Brazil. s Fl. yellow.
4 species. s Fl. yellow.
} Showy.

16 Ichnocarpus, Br.

1 frutescens, Br. India. ○ s Fl. white.

17 Roupellia, Wall.

1 grata, Wall. Seirra Leone. s Fl. rosy-white to crimson.

18 Dipladenia,

1 Brearleyana, Fl. pink changing to crimson, showy.

19 Echites, Linn.

1 sub-erecta. ○
2 paniculata, Roxb. Silhet. ○ Fl. yellowish-white. (See *Anodendron paniculatum* A. D.C.)

20 Landolphia,

1 Kirkii.	Africa.	○	Fl. white. African
2 Watsonii.	do.	○	rubber is extracted
3 species.	do.	○	from these plants.

21 Rhyncospermum, LINDL

1 jasminoides, Lindl. CHINA. ○ Fl. white, fragrant.

22 Adenum, R. AND S.

1 obesum, D.C. ARABIA. ♂

ORDER LXXVI.

ASCLEPIADACEÆ.

THE MILKWEED FAMILY.

As in the preceeding family, this large tropical Order is characterised by a milky juice. There are no trees, and the numerous shrubs are often of a climbing habit. The reproductive or essential organs of the flower are arranged in a manner peculiar to this Order alone. Anthers coherent, with the pollen masses resting upon the stigma, which is 5 rayed or columnar. Coronal processes angled, fleshy, and more or less columnar. When the structure of the flower is once understood, it is not difficult to determine plants of the Asclepiadaceæ. Examine species of Nos. 1, 6, 14 and 18. The flowers of *Hoya viridiflora* are absolutely green, while there is a strong tendency to yellowish-green in many indigenous species.

1 Hemidesmus, R. BR.

1 indicus, R. Br. *Bastard Sarsaparilla.* INDIA. ○ Fl. greenish-purple. *Kan.* Sugandhi balli. ಸುಗಂಧಿ ಬಳ್ಳಿ.

2 Cryptolepis, BR.

1 Buchanani, Roem. INDIA. ○ Fl. yellow.
2 grandiflora, Wight. INDIA. ○

3 Cryptostegia, BR.

1 grandiflora, R. Br. INDIA. ○ Madagascar. Fl pinkish-purple.

4 Secamone, Br.

1 emetica, Br, India. ○ *Kan.* Síranige hambu. ಸಿರನಿಗೆ ಹಂಬು.

5 Oxystelma, Br.

1 esculentum, Br. India. ○ Fl. white-rose with purple veins.

6 Calotropis, R. Br.

1 gigantea, R. Br. *The Mudar.* India. ♂ Fl. blueish-purple. *Kan.* Yekkada gida. ಎಕ್ಕದಗಿಡ.
2 ,, var. alba. India. ♂ Fl. white. *Kan.* Bili Yekkada gida. ಬಿಳಿ ಎಕ್ಕದಗಿಡ.
3 procera, Br. India. ♂ Fl. purple.

7 Asclepias, Linn. *Swallow Wort.*

1 curassavica, Linn. S Amer. ♂ Fl. scarlet and orange.

8 Dæmia, Br.

1 extensa, Br. India. ○ Fl. yellow, green, and dull red. *Kan.* Juttuve balli. ಜುಟ್ಟುವೆಬಳ್ಳಿ.

9 Cynanchum, Linn.

1 alatum, Wight. India. ○ Fl. greenish-purple.
2 Callialata, Ham. India. ○ Yellowish-purple.

10 Sarcostemma, R. Br.

1 brevistigma, W. and A. India. ○ ☿ Fl. white. *Kan.* Hambu kalli. ಹಂಬುಕಳ್ಳಿ.

11 Gymnema, Br.

1 sylvestre, Br. India. ○ *Kan.* Sanna gerse hambu. ಸಣ್ಣಗೆರ್ಸೆಹಂಬು.

12 Pergularia, LINN.

1 minor, Andr. INDIA, CHINA, AND JAPAN. ○ *The Indian Cowslip Creeper*, Fl. pale yellow.

13 Stephanotis, THOUARS.

1 floribunda, Thouars, MADAGASCAR. ♃ Fl. pure white.

14 Tylophora, R. BR.

1 asthmatica, W. and A. INDIA. ○ Fl. yellowish and purple. *Kan.* A'dumuttada gida. ಆದು ಮುಟ್ಟುದಗಿಡ.

2 pauciflora, W. and A. INDIA ○

3 zeylanica Dcne. INDIA AND CEYLON. ○

4 tenuis, Blume. INDIA. ○ Fl. purple.

15 Hoya, R. BR.

1 carnosa, R. Br. *Wax Flower*. CHINA. ○ Fl. fleshy-pink.

2 imperialis, (?) Lindl. BORNEO. ○ Fl. reddish-brown.

3 viridiflora, R. Br. INDIA. ○ Fl. green.

4 Bella, Hook. INDIA. ○ Fl. white with rosy-crimson centre.

5 ovata, (?) ○ Nos. 2 and 5 are entered with some hesitation. The collection includes a beautifully variegated plant which appears to be a variety of *H. carnosa*.

16 Leptadenia, R. BR.

1 reticulata, Wight. INDIA. ○

17 Brachystelma, BR.

1 Beddomei, Hook? INDIA. ○ ♃ Fl. purplish.

18 Ceropegia, LINN.

1 juncea, Roxb. INDIA. ○ Fl. greenish, streaked with purple.

2 mysorensis, Wight. ○ INDIA. Fl. pale greenish-straw.
3 tuberosa, Roxb. ○ INDIA.
4 hirsuta, Wight. ○ INDIA. Fl. greenish, blotched purple.
5 species. ○ INDIA. Fl. yellowish,

19 Gomphocarpus, R. BR.

1 fruticosus, R. Br. AMERICA. ♄ Fl. white.

20 Caralluma, R. BR.

1 adscendens, R. Br. INDIA. ♄ ♯ Fl. purple.
2 edulis, Benth. INDIA. ♄ ♯ Tender shoots eaten by children. Fl. yellowish-purple.

21 Boucerosia, R. BR.

1 umbellata, W. and A. INDIA. ♄ ♯ Fl. purple on a golden-yellow ground.
2 species. INDIA. ♄ ♯ Fl. purple.

ORDER LXXVII.

LOGANIACEÆ.

THE STRYCHNOS FAMILY.

This Order possesses many of the characters of *Rubiaceæ*. It is distinguished from that family, however, by its superior ovary. Herbs, shrubs and trees, of tropical and sub-tropical countries.

1 Mitrasacme, LABILL.

1 alsinoides, Br. INDIA. ⊙ Fl. small, white.

2 Buddleia, LINN.

1 asiatica, Lour. INDIA AND CHINA. ♄ Fl. white.

3 Fagræa, Thunb.

1 coromandeliana, R. W. India. ♄ (See *F. obovata*, Wall.) Fl. white, showy.

4 Strychnos, Linn.

1 Nux-vomica, Linn. India. ♄ *Kan.* Nanjina koradu, (mushti) mara. ನಂಜಿನಕೊರಡು. (ಮುಷ್ಟಿ) ಮರ } Strychnia is prepared from the seed of this tree.

2 potatorum, Linn. India. ♄ *Kan.* Chillu mara. ಚಿಳ್ಳುಮರ.

Order LXXVIII.

GENTIANACEÆ.

THE GENTIAN FAMILY.

An alpine Order of herbs with opposite leaves and pretty terminal flowers. Whorls usually in fours. *Corolla* rotate or funnel-shaped. *Ovary* superior, one-celled, with numerous ovules on two parietal placentas. *Stigmas* 2.

1 Exacum, Linn.

1 tetragonum, Roxb. India. ☿ Fl. blue.
2 pedunculatum, Linn. India. ☿ Fl. blue.

2 Hoppea, Willd.

1 dichotoma, Willd. India. ☿ Fl. white.
2 fastigiata, Clarke. India. ☿

3 Erythræa, L. C. Rich.

1 Roxbiurghii, G. Don. India. ☿ Fl. rose to reddish. *Kan.* Kádu kempu jírige gida, ಕಾಡುಕೆಂಪು ಜೀರಿಗಿಡ. There is also a var. with white flowers. Is this *E. saxatilis*?

4 Canscora, LAMK.
1 diffusa, Br. INDIA. ⊙ Fl. rose.
2 Wallichii, Clarke. INDIA. ⊙ Fl. rose.

5 Limnanthemum, S. P. GMEL.
1 cristatum. Griseb. INDIA AND CHINA. ♃ ♅ Fl. white with yellowish centre.
2 indicum, Thwaites, INDIA AND AUSTRALIA. ♃ ♅ Fl. whitish, to yellow at base.

ORDER LXXIX.

POLEMONIACEÆ.

THE PHLOX FAMILY.

An American Order of herbs, shrubs and trees. India has one representative in the Himalaya. *Ovary* superior, 3—celled, *style* shortly 3—fid. *Ovules* numerous.

1 Phlox, LINN.
1 paniculata, Linn. N. AMER. ♃ Fl. white, rose and reddish.
2 „ var. alba. ♃ Fl. white.
3 Drummondi, Hook. TEXAS. ⊙ This well known bedding annual succeeds admirably in Bangalore gardens. Fl. various.

2 Cobæa,
1 scandens. Fl. light purple. ♃

ORDER LXXX.

HYDROPHYLLACEÆ.

THE HYDROPHYL FAMILY.

This is another American Order of herbs, or rarely soft-wooded shrubs, and as in the preceeding family,

India possesses only one indigenous species, No. 2. *Leaves* alternate. *Flowers* 5—merous, showy, and often blue in colour. *Petals* imbricated.

1 Wigandia, KNTH.

1 caracassana, Knth. CARACCAS. ♃ Fl. purple.

2 Hydrolea, LINN.

1 zeylanica, Vahl. INDIA. ⊙ Subaquatic. Fl. blue.

3 Nemophila, BART.

1 insignis, Benth. CALIFORNIA. ⊙ Fl. blue.

ORDER LXXXI.

BORAGINEÆ.

THE BORAGE FAMILY.

A large Order of herbs, shrubs and trees. Prevailing in the north temperate zones, and scattered throughout the world. *Leaves* rough, alternate, exstipulate, and usually entire. *Flowers* mostly in scorpioid cymes, or solitary, 5—merous. *Stamens* alternate with the corolla-lobes. *Ovary* superior, entire, or two to four lobed, with an ovule in each lobe. *Labiatæ* has a somewhat similar ovary, so students should note other characters to determine between the two families.

The tribes *Cordieæ*, *Ehretieæ*, *Heliotropieæ* and *Borageæ* are represented by Nos. 1, 2, 4 and 9 respectively.

1 Cordia, LINN.

1 Myxa, Linn. INDIA. ♄ Fl. white. *Kan.* Solle (Kendal) mara. ಸೊಳ್ಳೆ (ಕೆಂದಲ) ಮರ.

2 monoica? Roxb. INDIA. ☥ Fl. white.
3 subcordata, Lamk. ANDAMANS. ☥ Fl. large, orange.
4 species, INDIA. ☥ *Kan.* Tapasi mara. ತಪಸಿ ಮರ.

2 Ehretia, LINN.
1 lævis, Roxb. INDIA. ☥ Fl. white. *Kan.* Hálippe (kappúra) mara. ಹಾಲಿಪ್ಪೆ (ಕಪ್ಪೂರ) ಮರ.
2 „ var. pubescens. INDIA. ☥
3 „ var. aspera. INDIA. ☥

The vernacular name 'Kodali murka mara' possibly applies to one of these varieties.

4 buxifolia, Roxb. INDIA. ♄ Fl. white. *Kan.* Yennebudige gida. ಎಣ್ಣೆ ಬುಡಿಗೆ ಗಿಡ.
5 Wightiana, Wall. INDIA. ☥

3 Coldenia, LINN.
1 procumbens, Linn. A common weed. INDIA. ⊙ Fl. white, small.

4 Heliotropium, LINN.
1 peruvianum, Linn. *Heliotrope.* PERU. ♄ Fl. blue to purple.
2 strigosum, Willd. INDIA. ⊙
3 indicum, Linn. INDIA. ⊙ Fl. whitish.

5 Trichodesma.
1 indicum, INDIA. ⊙ Fl. lavender to pale purple.
2 amplexicaule, Roth. INDIA. ⊙
3 zeylanicum, Br. INDIA AND CEYLON. ⊙

6 Anchusa, LINN. *Alkanet.*
1 italica, Retz. S. EUROPE. ♃ Fl. blue.

7 Myosotis, LINN.
1 palustris, With. *Forget-me-not.* EUROPE. ♃ Fl. blue.
2 sylvatica, Hoffm. HIMALAYA. ♃

8 Symphytum, Linn.

1 asperrimum, *Prickly Comfrey.* ♃ Fl. reddish-purple.

9 Borago, Linn.

1 officinalis, Linn. *Borage.* Europe. ⊙ Fl. blue.

10 Cynoglossum, Linn.

1 furcatum, Wall. India. ♃ Fl. blueish-purple. *Kan.* Amrada soppu. ಅಮ್ರದ ಸೊಪ್ಪು.

Order LXXXII.

CONVOLVULACEÆ.

THE BINDWEED FAMILY.

The plants of this Order are mostly of a twining or trailing habit, but there are also some erect shrubs, and a few trees. Confined almost exclusively to tropical and sub-tropical regions. *Leaves* alternate and exstipulate, usually long-petiolate. *Flowers* conspicuous and gaily coloured, campanulate or funnel—shaped; cymose and bracteate. Note the plaited corolla which is an unusual condition in gamopetalæ. Also the annular disc surrounding the superior 2—4 celled ovary. Seeds definite, being usually 4—1.

The elephant creeper, *Argyreia speciosa*, is a good large type of the family. The tribe *Cuscuteæ* consists of leafless parasites suspended from the trunks and branches of trees in the cooler parts of India.

1 Erycibe, Roxb.

I paniculata, Roxb. India. ♄ Fl. yellowish.

2 Rivea, Chois.

1 ornata, Chois. India. ○ s Fl. large, white.
2 hypocrateriformis, Chois. India. ○ s Fl. whitish.

3 Argyreia, Lour.

1 speciosa, Swt. *Elephant Creeper*. India. Fl. rose. *Kan*. Samudrapála balli. ಸಮುದ್ರಪಾಲ ಬಳ್ಳಿ.
2 cuneata, Ker. India. s Fl. bright purple. *Kan*. Atchári gida. ಅಚ್ಚಾರಿ ಗಿಡ.
3 tiliæfolia, Wight. India. ○ s Fl. rose-purple.
4 bracteata, Chois. India. ○
5 pomacea, Chois. India. ○
6 species. ○

4 Lettsomia, Roxb.

1 setosa, Roxb. India. ○ Fl. rose.
2 species. India. ○ Fl. rose with reddish centre. *Kan*. Oogani hambu. ಉಗಣಿ ಹಂಬು.

5 Ipomæa, Linn.

1 bona-nox, Linn. Trop. Amer. *Moon-flower Creeper*. Fl. pure white.
2 „ var. grandiflora. A larger form. Fl. pure white.
3 coccinea, Linn. Trop. Amer. ○ Fl. crimson.
4 Quamoclit, Linn. Trop. Amer. ○ Fl. crimson.
5 do. var. alba. Trop. Amer. ○ Fl. white. *Indian forget-me-not*.
6 hederacea, Jacq. India and Trop. Amer. ○ *Morning Glory*. Fl. blue.
7 purpurea, Lamk. Trop. Amer. and India. ○ Fl. purple.
8 superbiens, Hort. ○ Fl. rosy-mauve.
9 digitata, Linn. Trop. Asia. ○ Fl. pinkish-purple.
10 pentaphylla, Jacq. India. ○ ⊙. Fl. whitish.

11 Batatas, Lamk. AMERICA. ○ *Sweet Potato.* Fl. purple.
12 pes-tigridis, Linn. INDIA and TROP. AFRICA. ○ ⊙ Fl. pink.
13 eriocarpa, Br. INDIA. ○ ⊙ Fl. pink. *Kan.* Mulli balli. ಮುಳ್ಳಿಬಳ್ಳಿ.
14 angustifolia, Jacq. INDIA. ○ Fl. yellow with purple eye.
15 chryseides, Ker. INDIA and CHINA. ○ Fl. yellow.
16 reniformis, Chois. INDIA. ○ Fl. small yellow.
17 obscura, Ker. INDIA. ○ Fl. creamy or pale yellow with purple eye.
18 aquatica, Forsk. INDIA. A. C. Fl. pale purple. *Kan.* Balle hambu. ಬಳ್ಳಿಹಂಬು.
19 campanulata, Linn. INDIA. ○ Fl. purple.
20 biloba, Forsk. INDIA and CEYLON, near the sea. ○ *Goats-foot Creeper.* Fl. large, purple.
21 kentrocaulos, Clarke. INDIA. ○ Fl. yellow. (See *I tuberosa.*)
22 palmata, Forsk. TROP. ASIA. ○ Fl. pale mauve.
23 species. ⊙ ○. stem muricated, leaves large, cordate. Fl. purple at mouth white within.

6 Hewittia, W. and A.

1 bicolor, W. and A. INDIA. ○ Fl. yellow with purple eye.

7 Convolvulus, LINN *Bindweed.*

1 parviflorus, Vahl. TROP. ASIA. ⊙ Fl. pink or white.
2 arvensis, Linn. INDIA. ○ Fl. purple *Kan.* Naranji balli. ನರಂಜಿ ಬಳ್ಳಿ.
3 tricolor, Linn. S. EUROPE. ⊙ Fl. various.
4 scammonia, Linn. *Scammony.* LEVANT. ○ Fl. white.
5 species (?) ○ Fl. blue. *Kan.* Gouri balli ? ಗೌರಿ ಬಳ್ಳಿ.

8 Exogonium, CHOISY.
1 purga, Benth. *Jalap* MEXICO. ○

9 Jacquemontia, CHOISY.
1 cærulea, Choisy. AMER. ○ Fl. blue.

10 Evolvulus, LINN.
1 alsinoides, Linn. INDIA. ○ *Kan.* Vishnukránti soppu. ವಿಷ್ಣುಕ್ರಾಂತಿ ಸೊಪ್ಪು.

11 Porana, BURM.
1 volubilis, Burm. TROP ASIA. ○ Fl. creamy-white.

12 Cuscuta, LINN.
1 reflexa, Roxb. An INDIAN parasite. Branches in dense yellow masses, fleshy. Fl. small whitish.

ORDER LXXXIII.

SOLANACEÆ.

THE NIGHTSHADE FAMILY.

An extensive Order of herbs and shrubs, very rarely soft wooded trees. Confined mostly to the warm parts of the world, while useful species, such as the potato, are much scattered by cultivation. *Leaves* alternate or geminate, but never opposite, exstipulate. *Flowers* in terminal, axillary or extra-axillary cymes. Observe that the latter condition is not unusual. They are also regular, sexual, and isomerous; white and blue, with prominent yellow anthers, being the prevailing colours. *Ovary* 2—celled or spuriously 4—celled. *Ovules* indefinite, on projecting peltate placentas. *Fruit* various, with numerous seeds. Note, also, the frequent enlargement of the calyx as the fruit attains maturity. The Sub-Orders *Solaneæ*, *Hyos-*

cyameæ and *Cestrineæ* are represented by Nos. 1, 8 and 13 respectively. Many species are powerfully narcotic.

1 Solanum, Linn. *Nightshade.*

1 nigrum, Linn. India. H Fl. white. Fruit black. *Kan.* Kari káchi gida. ಕರಿ ಕಾಚಿ ಗಿಡ.

Note—the red-fruited var. is called Kempu káchi gida. ಕೆಂಪು ಕಾಚಿ ಗಿಡ.

2 verbascifolium, Linn. India and Trop. Amer. Fl. white. A large shrub. *Kan.* Savdangi gida. ಸಾವಡಂಗಿ ಗಿಡ.

3 giganteum, Jacq. India and Ceylon. T Fl. blue.

4 ferox, Linn. India. S Fl. white. Fruit yellow.

5 torvum, Swartz. India, China and Trop. Amer. S Fl. white. Fruit yellow.

6 indicum, Linn. India. S Fl. blue. Fruit reddish yellow. *Kan.* Kempu gulla gida. ಕೆಂಪು ಗುಳ್ಳ ಗಿಡ.

7 Melongena, Linn. Cultd. *Bringal*, *Egg-plant*, or *Aubergine.* Fl. blue. Fruit large. S *Kan.* Badane gida. ಬದನೆ ಗಿಡ.

8 „ variety. Possibly the garden plant run wild. Fl. blue. *Kan.* Ráma gulla gida. ರಾಮಗುಳ್ಳ ಗಿಡ.

9 xanthocarpum, Schrad. India. S (See. *S. Jacquini.*) Fl. blue. Fruit yellowish with green spots.

10 trilobatum, Linn. India. C S Fl. blue.

11 arboreum. H. and B. *Potato Tree.* S. Amer? T Fl. blue and white.

12 tuberosum, Linn. S. Amer. H *Potato.* Fl. blue and white. *Kan.* Urala gadde. ಉರಲ ಗಡ್ಡೆ.

13 species. S Austr.

14 species. S India or S. Amer.

2 Cyphomandra, D.C.

1 betacea, D.C. Trop. Amer. S *Tree Tomato.* Fl. white.

3 Lycopersicum, Tournef.

1 esculentum, Mill. *Tomato*. S. Amer. ⊙ Fl. pale yellow. *Kan.* Chapparada badane gida. ಚಪ್ಪರದ ಬದನೆ ಗಿಡ.

4 Physalis, Linn.

1 peruviana, Linn. *Cape Gooseberry*. Peru. ♃ Fl. clear yellow, with 5 purple spots within. *Kan.* Budde hannu gida. ಬುಡ್ಡೆ ಹಣ್ಣು ಗಿಡ.

2 minima, Linn. Trop. Asia. ⊙ Fl. bright yellow

5 Capsicum, Linn.

1 frutescens, Linn. Cultd. ⊙ *Common Chillee*. Fl. white *Kan.* Holada menasina gida. ಹೊಲದ ಮೆಣಸಿನ ಗಿಡ.

2 minimum, Roxb. Cultd. ♃ *Birds-eye Chillee*. Fl. white. *Kan.* Parangi menasina gida. ಪರಂಗಿ ಮೆಣಸಿನ ಗಿಡ.

3 grossum, Willd. Cultd. ⊙ *Kaffree* and *Nepaul Chillee*. Fl. white.

4 „ var. cerasiformis. ⊙ Fl. white.

5 annuum, Linn. S. Amer. ⊙ Fl. white. *Kan.* Menasina gida. ಮೆಣಸಿನ ಗಿಡ.

6 Withania, Panq.

1 somnifera, Dunal. India. ♄ Fl. yellow. *Kan.* Hirimaddina gida. ಹಿರಿಮದ್ದಿನ ಗಿಡ.

7 Nicandra, Adans.

1 physaloides, Gærtn. Peru and India. ⊙ Fl. blue. *Kan.* Budde (bondúla) gida. ಬುಡ್ಡೆ (ಬಂಡೊಲ) ಗಿಡ.

8 Datura, Linn.

1 stramonium, Linn. *Thorn Apple*. Europe. ⊙ Fl.

white. *Kan.* Bili ummatti gida. ಬಿಳಿ ಉಮ್ಮತ್ತಿ ಗಿಡ.
2 do. var. Tatula, INDIA. ⊙ Fl. purple. *Kan.* Kari ummatti gida. ಕಾರಿ ಉಮ್ಮತ್ತಿ ಗಿಡ.
3 fastuosa, Linn. S. AMER. ⊙
4 chlorantha, fl. pl. HORT. ⊙ Fl. yellow.
5 species. ⊙

9 Brugmansia, PERS.
1 suaveolens, Pers. *Trumpet Flower.* W. INDIES. ♄ Fl. white.

10 Hyoscyamus, LINN.
1 niger, Linn. *Henbane.* EUROPE. ⊙ Fl. purplish within, lurid-green and purple-veined without.

11 Petunia, JUSS.
1 nyctaginiflora, Juss. S. AMER. ♃ } Fl. various.
2 variabilis, Hort. ⊙ } Fl. various.
3 violacea, Lindl. B. AYRES. ⊙ } Fl. various.

12 Habrothamnus, ENDL.
1 elegans, Humb. and Bonpl. S. AMER. ♄ Fl. rosy-red to crimson.

13 Nicotiana, LINN.
1 Tabacum, Linn. *Tobacco.* S. AMER. ♃ Fl. whitish. *Kan.* Hoge soppu. ಹೊಗೆ ಸೊಪ್ಪು.
2 glauca, Grah. S. AMER. ♄ Fl. yellow.
3 species. ♃ ♄

ORDER LXXXIV.

SCROPHULARINEÆ

THE FIGWORT FAMILY.

A large Order of herbs, shrubs, or exceptionally trees. *Leaves* opposite, or more rarely alternate and

whorled; exstipulate. *Flowers* irregular, and anisomerous by the suppression of one or more stamens. The latter condition should be carefully noted as it technically separates the family from *Solanaceæ*. Observe, too, that the perfect stamens are often didynamous. The Order is widely scattered over the globe and affords many popular garden flowers, as also a considerable proportion of the weeds of most countries. Nos. 1, 4, 10, 15 and 21 are good examples for study, as they represent the more important tribes of the group.

1 Verbascum, LINN.

1 Thapsus. Linn. *Mullein*. EUROPE. ♃ Fl. white. *Kan*. Kádu Hoge soppu. ಕಾಡು ಹೊಗೆ ಸೊಪ್ಪು.

2 Celsia, LINN.

1 coromandeliana, Vahl. INDIA AND CHINA. ⊙ Fl. yellow.

3 Linaria, TOURNEF. *Toad-flax*.

1 dalmatica. EUROPE. ♃ Fl. sulphur-yellow.
2 triornithophora. EUROPE. ♃ Fl. purple.

4 Antirrhinum, LINN.

1 majus, . Linn. *Snap-Dragon*. EUROPE. ♃ Fl. various.

5 Mimulus, LINN. *Monkey Flower*.

1 cupreus, Hort. ⊙ Fl.
2 luteus, DC. CHILI. ♃ blotched
3 variegatus. ⊙ various colours.

6 Limnophyla, BR.

1 gratioloides, Br. INDIA, in paddy-fields. ♃
2 do. var. intermedia ? ♃

7 Herpestis, GÆRTN. f.

1 Monniera, H. B. and K. INDIA. A marsh herb. Fl. white and blue. *Kan*. Níru brámhi soppu. ನೀರು ಬ್ರಾಂಹಿ ಸೊಪ್ಪು.

8 Torenia, LINN.

1 asiatica, Linn. *Sispara Creeper.* INDIA. Fl. violet -blue.
2 species. ⊙ Fl. violet-purple.

9 Vandellia, LINN.

1 crustacea, Benth. INDIA. ⊙
2 scabra, Benth. INDIA. ⊙
3 erecta, Benth. INDIA. ⊙
4 pedunculata, Benth. INDIA. ⊙ Fl. pale blue with white spot, or whitish.

10 Ilysanthes, RAFIN.

1 hyssopioides, Benth. INDIA AND CHINA. ⊙ Fl. pale blue. *Kan.* Níru góni soppu. ನೀರು ಗೋಣಿ ಸೊಪ್ಪು.
2 parviflora, Benth. INDIA. ⊙ Fl. white to blue.

11 Veronica, LINN.

1 spicata, Schr. *Speedwell.* EUROPE. ♃ Fl. blue.

12 Striga, LOUR.

1 euphrasioides, Benth. INDIA. ♃ Fl. white.

13 Rhamphicarpa, BENTH.

1 longiflora, Benth. INDIA. ♃ Fl., whitish.

14 Sopubia, HAMILT.

1 delphinifolia, G. Don. INDIA (Bangalore.) ♃ Fl. mauve or rose.
2 ,, var. alba. Fl. pure white.

15 Maurandia, JACQ.

1 Barclayana, Lindl. MEXICO. ♂ Fl. deep violet to nearly white.
2 ,, fl. coccinea. Fl. rosy-red.
3 semperflorens, Jacq. MEXICO. ♂

16 Penstemon, L'Herit.

1 Hartwegii, Benth. Mexico. ♃
2 campanulatum, Willd. Mexico.
3 hirsutus, W. Mexico. ♃
4 Lobbianum, Hook. Chill. ♃
5 glabrum, Pursh. N. Amer. ♃

} Fl. varied in colour.

17 Angelonia, Humb. and Bonpl.

1 floribunda, Kunze. Brazil. ♃ Fl. violet-purple.
2 do. var. grandiflora. Hort. ♃ Fl. violet-purple.

18 Browallia, Linn.

1 elata, Linn. Peru. ⊙ Fl. blue.
2 „ var. alba. ⊙ Fl. white.

19 Lophospermum, Don.

1 scandens, Hook. Mexico. ○ Fl. pink.

20 Collinsia, Nutt.

1 bicolor, Benth. Columbia. ♃
2 grandiflora, R. Br. Columbia. ♃

} Fl. rose-pink.

21 Calceolaria, Linn.

1 mexicana, Benth. S. Amer. ⊙ *Slipperwort.* This plant is not successfully cultd. at Bangalore. Fl. yellow.

22 Paulownia, Seibold.

1 species. ♄

23 Russellia, Linn.

1 juncea, Zucc. Mexico. ♄ Fl. red.
2 floribunda, (?) H. B. and Kth. Mexico. ♄ Fl. red.

24 Brunfelsia, Linn.

1 americana, Linn. W. Indies. s Fl. white changing to yellow.

25 Franciscea, Pohl.

1 acuminata, Pohl. Brazil. s
2 uniflora, Pohl. Brazil. s Fl. violet to whitish purple.

26 Sanchezia, Ruiz & Pav.

1 nobilis, Ruiz and Pav. Ecuador. s Fl.
2 do. var. variegata. do. s yellow.

Order LXXXV.

OROBANCHACEÆ.

THE BROOM-RAPE FAMILY.

A small Order of leafless parasitical herbs found mostly on the roots of grasses. Excepting at the Cape of Good Hope, they are chiefly confined to the northern hemisphere. Some species are injurious to mustard, tobacco, and other field crops of this country. Search for small scaly or fleshy plants of a whitish, reddish, or yellowish colour.

1 Æginetia, Linn.

1 indica, Roxb. India. A parasite.
2 pedunculata, Wall. India and China. A parasite on the roots of grasses.

2 Orobanche, Linn.

1 nicotianæ, Wight. India. Prevalent in tobacco crops.
2 indica, Ham. India. Prevalent in mustard crops.

ORDER LXXXVI.

LENTIBULARIACEÆ.

THE BUTTER-WORT FAMILY.

A small cosmopolitan Order of aquatic or marsh herbs. *Corolla* 2—lipped, and spurred. *Stamens* 2.

1 Utricularia, LINN.

1 reticulata, Smith. INDIA. ⊙ ⍋ In paddy fields. Fl. blue.

2 flexuosa, Vahl. INDIA. ⊙ ⍋ In paddy fields. Fl. yellow.

ORDER LXXXVII.

GESNERACEÆ.

THE GESNERA FAMILY.

Herbs or undershrubs. A large Order distributed through sub-tropical Asia and tropical America. Leaves exstipulate, simple, often wrinkled, and variously attached. In the Sub-Order *Eugesnereæ* the herbaceous plant is usually deciduous, life being sustained for a season by the scaly tubers. Flowers irregular, showy, bracteate, and sexual. See the cultivated garden plants *Gloxinia* and *Achimenes*. The Sub-Order *Cyrtandreæ*, which is alone indigenous to India, is determined by a superior ovary, exalbuminous fusiform seeds, and commonly a slender siliquiform capsule. Examine species of Nos. 1 and 4, which represent the two Sub-Orders referred to.

SUB-ORDER.

CYRTANDREÆ.

1 Æschynanthus, JACQ. Epiphytal under-shrubs.

1 radicans, Wall. INDIA. ♄ Fl. scarlet with yellow throat.

2 ceylanica, Gardn. INDIA. ♃ Fl. reddish-purple.

2 Klugia, SCHLECHT.

1 Notoniana, A. DC. INDIA. ⊙ Fl. white blue and yellow.

SUB-ORDER.

EUGESNEREÆ.

3 Gesnera, LINN.

1 tubiflora, Linn. S. AMER. ♃
2 longiflora, Humb. and Bonpl. BRAZIL. ♃
3 tuberosa, Mart. BRAZIL. ♃
4 barbata, Nees. BRAZIL. ♃
5 splendens, Hort. ♃
6 zebrina Paxt. S. AMER. ♃

Fl. various.

4 Achimenes, R. BR.

1 coccinea, MEXICO. ♃
2 longiflora, Hook. GUATEM. ♃
3 pedunculata, Benth. GUATEM. ♃

Fl. various, blue and purple prevaling.

5 Gloxinia, L'HERIT.

1 maculata, W. BRAZIL. ♃
2 speciosa, Ker. BRAZIL. ♃
3 insignis, Hort. ♃
4 species, ♃

Fl. various.

6 Streptocarpus, LINDL.

1 Rexii, Lindl. C. G. HOPE. ♃

ORDER LXXXVIII.

BIGNONIACEÆ.

THE BIGNONIA FAMILY.

Trees and climbing shrubs, rarely herbs. *Leaves* opposite, compound, and exstipulate. *Flowers* in terminal

panicles or racemes, irregular, sexual, and usually very showy. *Corolla* tubular, trumpet-shaped or campanulate, usually large. *Stamens* rarely equal in number to corolla-lobes, often didynamous. *Ovary* seated upon a disc, 2—celled. *Seeds* numerous and winged. *Fruit* an elongated (often sword-shaped) capsule. The American Sub-Order *Crescentiaceae* comprises the calabash trees of of the West Indies, with large gourd-like fruit. These are represented at Bangalore by Nos. 11 and 12. The Indian plants of this well defined Order are, with two exceptions, trees. For good types of the latter see Nos. 1, 2, and 8.

1 Millingtonia, Linn. f.

1 hortensis, Linn. f. India and Burmah. ⊤ *The Indian Cork Tree.* Fl. white. *Kan.* Biratu mara. ಬಿರಟು ಮರ.

2 Oroxylum, Vent.

1 indicum, Vent. India. ⊤ Fl. purple. Much better known by the old name *Bignonia indica*, Linn.

3 Bignonia, Linn. *Trumpet Flower.*

1 venusta, Ker. S. Amer. ○ The orange-fld. climber which is commonly seen in local gardens.
2 gracilis Lodd. S. America. ○ Fl. bright yellow. or canary. Growing over the 'Darwinia.'
3 chamberlaynii, Sims. Brazil. ○ Fl. pale yellow.

4 Tecoma, Juss.

1 stans, Juss. S. Amer. ⊖ Fl. bright yellow.
2 jasminoides, G. Don. Austr. ○ Fl. purplish-white.

3 velutina, Hort. s Fl. bright yellow.
4 australis, R. Br. E. AUSTR. c Fl. dull orange, reddish within.
5 australis, var. La Trobi, F. Muell. E. AUSTR. c
6 capensis, R. Br. C. G. Hope. c Fl. orange-red
7 undulata, G. Don. INDIA. s Fl. orange.

5 Dolichandrone, SEEM.

1 falcata, Seem. INDIA. T Fl. whitish.

6 Spathodea, BEAU.

1 campanulata (?) Introduced. When in flower this fine tree is one of the handsomest objects in our Parks and Gardens. Corolla orange crimson, mouth 4—5 inches in diam. Capsule flat, slightly keeled, 11 by 2 in; acute at both ends.

7 Heterophragma, DC.

1 adenophyllum, Seem. INDIA. T Fl. brownish yellow.

8 Stereospermum,

1 chelonoides, DC. INDIA. T Fl. rose.
The sweet-scented flowers are much prized for garlands, etc. *Kan. Pádari mara.* ಪಾದರಿ ಮರ.
2 suaveolens. DC. INDIA. T Fl. yellowish-purple.
3 xylocarpum, Wight. INDIA. T Fl. white. (See *Bignonia, xylocarpa.*) *Kan.* Kónana kombu mara. ಕೋಣನ ಕೊಂಬು ಮರ.
4 species. T Fl. yellow. *Kan.* Kádu honge mara. ಕಾಡು ಹೊಂಗೆ ಮರ.

9 Amphilophium, KUNTH.

1 Mustisii, Kunth. AMER. c Fl. purple.

10 Catalpa JUSS.

1 speciosa, CALIFORNIA. T

SUB-ORDER.

CRESCENTIACEÆ.

11 Crescentia, LINN.

1 alata, H. B. and Kth. *Calabash Tree.* MEXICO Fl. rosy-purple.

12 Kigelia, DC.

1 pinnata, DC. W. INDIA. ♄ Fl. reddish-purple.

ORDER LXXXIX.

PEDALIACEÆ.

THE GINGELIE OIL FAMILY.

A small Order of herbs, chiefly. It is distinguished from *Bignoniaceæ* by its herbaceous nature, spuriously 4—celled ovary, and wingless seeds. The cultivated 'Olle yellu gida' is the ordinal type.

1 Pedalium, LINN.

1 Murex, Linn. INDIA. ⊙ Fl. yellow.

2 Sesamum, LINN.

1 indicum, DC. *Gingelie Oil Plant.* INDIA. ⊙ Fl. rosy-white, to yellow and purple within. *Kan.* Olle yellu gida. ಒಳ್ಳು ಎಳ್ಳು ಗಿಡ.

2 laciniatum, Klein. INDIA. ♃ Fl. purple-yellow.

3 Martynia, LINN.

1 fragrans. Lindl. MEXICO. ⊙ Fl. yellow.

2 diandra, Glox. AMER. ♃ *The Devils Claw.* Fl. rosy-violet.

ORDER XC.

ACANTHACEÆ.

THE ACANTHUS FAMILY.

This extensive Order of herbs and shrubs is mostly confined to warm countries, and is largely represented

in India. *Leaves* opposite, simple, and exstipulate. *Flowers* irregular, often in terminal rigid spikes, bracteate and 2—bracteolate. *Calyx* inferior, 5—merous. *Corolla* 2—lipped or irregularly 5—merous. *Stamens* didynamous or diandrous. *Ovary* 2—celled, undivided and superior. *Seeds* definite and usually attached to the placenta by a hooked process. *Capsule* 2—valved, often panduriform and clavate. The morphology of the ovary, and subsequently the fruit and seed, afford distinctive characters. Likewise the conspicuous bracts which, in many examples, partly conceal the flowers. Species of Nos. 1, 3, 12 and 19 are good types of the family.

1 Thunbergia, Linn.

1 grandiflora, Roxb. Trop. Asia. ○ Fl. blue.
2 do. var. alba. ○ Is this the var. *axillaris* of the Flora of British India? The flower is white. Received from Calcutta.
3 laurifolia, Lindl. India and Malay Peninsula. ○ Fl. blue.
4 coccinea. Wall. India. ○ Fl. red.
5 mysorensis, T. Anders. India. ○ *Munzerabad Creeper*. Fl. orange and red.
6 fragrans, Roxb. India. ○ Fl. white.
7 „ var. vestita. Nees. Fl. white.
8 alata, Bojer. Africa. ○ Fl. orange-yellow with claret base.
9 „ var. Fl. canary to pale yellow with claret throat. ○
10 Hawtayneana, Wall. India and Ceylon. s ○ Fl. violet purple with yellow throat.
11 species. Slender creeper. Fl. primrose-yellow. Possibly a var. of No. 8.

2 Nelsonia, R. Br.

1 campestris, Br. India ⊞ A weed. Fl. rosy-white.

3 Hygrophila, R. Br.

1 spinosa. T. Anders. India. ⊞ Fl. bluish-purple. *Kan.* Kolavanke gida. ಕೊಳವಂಕೆ ಗಿಡ.

2 salicifolia, Nees. INDIA. ⊞ Fl. pale purple.

4 Calophanes, D. DON.

1 vagans? Wight. INDIA. ⊞ Fl. blue.

5 Ruellia, LINN.

1 formosa, Andr. BRAZIL. s Fl. scarlet.
2 macrophylla, Vahl. s Introduced. ⊙ Fl. red.
3 prostrata, Lamk. INDIA. ⊞ Fl. pale purple. *Kan.* Bhímana soppu. ಭೀಮನ ಸೊಪ್ಪು.

6 Phaylopsis, WILLD.

1 parviflora, Willd. INDIA. ⊞ A common weed. Fl. small whitish.

7 Dædalacanthus, T. ANDERS.

1 roseus, T. Anders. INDIA. s Fl. rose. (See *Eranthemum.*)
2 montanus, T. Anders. INDIA. ⊞ Fl. pale blue.

8 Hemigraphis, NEES.

1 latebrosa, Nees. INDIA. ⊞ Fl. blue and yellow.

9 Strobilanthes, BLUME.

1 consanguineus, Clarke. INDIA. s Fl. bluish.
2 Heyneanus? Nees. INDIA. s Fl. pale blue.
3 ixiocephalus? Benth. INDIA. s Fl. white.
4 isophyllus, T. Anders. Khasia Mts. (See *Goldfussia.*) Fl. lavender.
5 anisophyllus, T. ANDERS. Khasia Mts. s Fl. lavender.
6 Newii, Beddome. INDIA. s Fl. purple.
7 species. Postrate herb with metallic leaves and small white flowers.
8 species. s

10 Blepharis, JUSS.

1 boerhaaviæfolia, Pers. INDIA. ⊞ Fl. pink-white. *Kan.* Kúdali soppu. ಕೂಡಲಿ ಸೊಪ್ಪು.
2 molluginifolia, Pers. INDIA. ⊞ Fl. whitish.

11 Acanthus, Tournf. *Bears Breech.*

1 ilicifolius, Linn. India. s Fl. blue.

12 Barleria, Linn.

1 Gibsoni, Dalz. W. India. s Fl. large, rosy-lilac.
2 Prionitis, Linn. Trop. Andia. s Fl. yellow.
3 buxifolia, Linn. India. s Fl. rosy-purple.
4 mysorensis, Roth. India. s Fl. pale purple. *Kan.* Gubichi gida. ಗುಬಿಚಿ ಗಿಡ.
5 longiflora, Linn. India. s Fl. white.
6 cristata, Linn. India. s Fl. white.
7 rubra? Ham. s Fl. rosy-red. Appears to be identical with cristata, except in colour.
8 species. s Leaves white. Fl. long, tubular, and white.
9 species. s Fl. blue.

13 Crossandra, Salisb.

1 undulæfolia, Salisb. India and Ceylon, Cultd. Fl. yellow.

14 Asystasia, Blume.

1 coromandeliana, Nees. India. H Fl. pink or pale-purple, often turning white.
2 species. Small shrub with pale blue or violet flowers.

15 Eranthemum, Linn.

1 malabaricum, Clarke. India. s Fl. whitish.
2 pulchellum, Andr. Northern India. s Fl. blue. (See *Dædalacanthus nervosus.*)
3 album, Nees. India and Andamans. s Fl. white.
4 Andersoni, Masters. Singapore. s Fl. white.
5 pallidum. s

6 bicolor, Schrank. ISL. LUCON. s Fl. white with reddish spots.
7 nobilis. s
8 elegans. s
9 species. s
10 species. s

16 Andrographis, WALL.

1 paniculata, Wall. *Nela vembu*. INDIA. ⊙ H Fl. white, spotted rose-purple.
2 serpyllifolia, Wight. c *Kan*. Saradále gadde. ಸರದಾಳೆ ಗಡ್ಡೆ.

17 Gymnostachyum, NEES.

1 ceylanicum, Arn. INDIA AND CEYLON. s Fl. purple.

18 Lepidagathis, WILLD.

1 cristata, Willd. TROP. INDIA. c H Fl. pale-white, brown spotted. *Kan*. Gantu kálu gadde. ಗಂಟು ಕಾಳು ಗಡ್ಡೆ.
2 fasciculata, Nees. TROP. INDIA. H Fl. whitish.

19 Justicia, LINN.

1 coccinea, Aubl. S. AMER. s Fl. scarlet.
2 Betonica, Linn. INDIA AND CEYLON. Fl. white, rose-spotted.
3 gendarussa, Linn. INDIA AND CHINA. s Fl. white with rose spots. Much used as a green edging plant at Bangalore. *Kan*. Natchu kaddi. ನಚ್ಚು ಕಡ್ಡಿ.
4 tranquebariensis, Linn. INDIA. s *Kan*. Kaddi yerakina gida. ಕಡ್ಡಿ ಯರಕಿನ ಗಿಡ.
5 diffusa, var. A prostrate herb. INDIA.
6 „ var. Hedyotidifolia. s *Kan*. Búsi gida. ಬೂಸಿ ಗಿಡ.
7 procumbens, Linn. INDIA AND CEYLON. H *Kan*. Nela bévina gida. ನೆಲ ಬೇವಿನ ಗಿಡ.

8 species. An introduced shrub with terminal spikes of beautiful yellow flowers.

20 Adhatoda, Nees.

1 vasica, Nees. India, Ceylon, and Singapore. Fl. white. s *Kan.* A'dusóge gida. ಆಡುಸೋಗೆ ಗಿಡ.

21 Rhinacanthus, Nees.

1 communis, Nees. India. s *Kan.* Dodda patike gida. Fl. white. ದೊಡ್ಡ ಪಟಿಕೆ ಗಿಡ.

22 Ecbolium, Kurz.

1 Linneanum, Kurz. India and Arabia. s Fl. greenish blue, peculiar.

23 Graptophyllum, Nees.

1	hortense, Nees.	India (?)	s	Foliage bronze or variegated. Flowers red to crimson.
2	„ var. picta.	„	s	
3	„ var. atropurpurea	„	s	

24 Rungia, Nees.

1 repens, Nees. India. H
2 parviflora, Nees? A common weed.

25 Dicliptera, Juss.

1 Leonotis? Dalz S. India. H
2 micranthes, Nees. India. H

26 Peristrophe, Nees.

1 bicalyculata, Nees. India. H *Kan.* Sibi gida. ಸೀಬಿ ಗಿಡ.

2 lanceolaria, Nees. India. H
3 tinctoria, Nees. India. Cultd. H

27 Cyrtanthera, NEES.
1 aurantiaca, Lindl. Mexico. ⊙ s Fl. orange. (See *Aphelandra.*)
2 Pohliana. S. AMER. s Fl. rosy-pink.

28 Aphelandra, R. BR.
1 cristata, H. K. W. INDIES. s Fl. red.

29 Meyenia, SCHLCHT.
1 erecta, Arrab. BRAZIL. s Fl. blue.
2 „ fl. alba „ s Fl. white.

30 Fittonia, COEM.
1 argyroneura, Coem. PERU. H Leaves beautifully marked
2 „ var. rubra-nerva. H

ORDER XCI.

VERBENACEÆ.

THE VERBENA FAMILY.

An Order of trees, shrubs and herbs ; mostly tropical. Its general morphology is closely allied to that of *Acanthaceæ* and *Labiatæ*, and the strictly determinable points will be found in the structure of the ovaries and the disposition of the ovules in the three families. The one under notice has an entire, superior, and usually 4-celled ovary, with terminal style. The ovules are not attached by a hooked process, and the fruit is rarely capsular, being mostly a drupe or berry. The species are also much larger, as a rule, than we find them in the allied Orders here referred to. Examine species of Nos. 1, 5, 7 and 10.

1 Lantana, LINN.
1 indica, Roxb. INDIA. s *Kan.* Kádu jóla gida. ಕಾಡು ಜೊಳ್ಳ ಗಿಡ. Fruit edible. Fl. white, pink, and purple.

2 camara, Linn. S. AMER. ♄ *Kan.* Náta hú gida. ನಾತ ಹೂ ಗಿಡ.

This shrub forms a good hedge, for which purpose it is extensively used in Bangalore. There are many varieties, as regards the colour of the flower, varying from pure white to deep orange and purple.

2 Lippia, LINN.

1 nodiflora, Rich. INDIA. ♃ Fl. purple to white. *Kan.* Kere hippali soppu. ಕೆರೆ ಹಿಪ್ಪಲಿ ಸೊಪ್ಪು.

3 Stachytarpheta, VAHL. *Bastard Vervain.*

1 indica, Vahl. ⊙ ♃ INDIA AND AMER. Fl. blue.
2 mutabilis, Vahl. S. AMER. ♃ Much larger than No. 1. Fl. scarlet-rose.

4 Priva, ADANS.

1 leptostachya, Juss. INDIA AND AFRICA. ♃ Fl. white. *Kan.* Sirantu gida. ಸಿರಂಟು ಗಿಡ.

5 Verbena, LINN. *Vervain.*

1 officinalis, Linn. Nuudidroog ♃ Fl. blue.
2 bonariensis, Linn. S. AMER. ♃ Fl. bluish-purple.
3 hybridus, Hort. ♃ Garden varieties succeed well during our cold season, and are much cultivated.
4 Aubletia? Linn. Amer. ♃

6 Callicarpa, LINN.

1 lanata, Linn. ⊙ ♄ INDIA. Fl. bluish-purple.

7 Tectona, LINN.

1 grandis, Linn. *Teak Tree.* INDIA. *Kan.* Tégada. mara. ತೇಗದ ಮರ. Fl. creamy-white. pale blue
2 Hamiltoniana, Wall. ♄ BURMAH. Fl.

8 Premna, Linn.

1 tomentosa, Willd. India and Ceylon. T Fl. yellowish. *Kan.* Nárave or I'ji mara. ನಾರವೆ (ಈಜಿ)ಮರ.

9 Gmelina, Linn.

1 arborea, Linn. India. T *Kan.* Kúli or kásmiri mara. ಕೂಲಿ (ಕಾಶ್ಮೀರಿ) ಮರ.
2 asiatica, (?) Linn. S

10 Vitex, Linn.

1 trifolia, Linn. India. S or T Fl. lavender.
2 Negundo, Linn. E. Asia, India and Ceylon. S or T *Chaste Tree.* Fl. bluish-lavender. *Kan.* Nekkilu gida. ನೆಕ್ಕಿಲು ಗಿಡ.

Note.—There are two varieties designated the black (*kari*) and white, (*bili*) as indicated by the prevailing colour of the foliage.

3 altissima, Linn. India. T Fl. blue. *Kan.* Návladi mara. ನವಾಡಿ ಮರ.
4 pubescens, Vahl. India and Ceylon. T Fl. blue.

11 Clerodendron, Linn. *Glory Tree.*

1 fragrans, Vent. China and Japan. S Fl. double rose to white.
2 siphonanthus, R. Br. India. S Fl. white.
3 phlomoides, Linn. India. S Fl. creamy-white.
4 nutans, Wall. India. S Fl. white.
5 squamatum, Vahl. India and China. S Fl. scarlet.
6 roseum, (?) S Probably a var. of *fragrans.*
7 heterophyllum, Ait. Africa. S Fl. white.
8 inerme, Gærtn. India and Ceylon. Fl. white, *Kan.* Vishmadhári gida. ವಿಷಮಧಾರಿ ಗಿಡ.

9 Thomsoniæ, Balf. AFRICA. c Fl. white and red.
10 serratum, Spreng. INDIA AND CEYLON. s Fl. pale blue.
11 infortunatum, Gærtn. INDIA. s Fl. white-pink.
12 species ? A small tree having triangular fœtid leaves and dull reddish flowers. Fruit not seen *Kan.* Taggi mara. ತಗ್ಗಿ ಮರ.
13 Colebrookianum ? Nundidroog. s Fl. reddish. *Kan.* Hutchu náre gida. ಹುಚ್ಚುನಾರೆ ಗಿಡ.

12 Holmskioldia, RETZ.
1 sanguinea, Retz. NORTH INDIA AND CHINA. s Fl. red.

13 Petrea, LINN.
1 volubilis, Linn. W. INDIES. c Fl. blue.

14 Duranta, LINN.
1 Ellisia, Linn. AMER. s Fl. violet or pale blue.
2 „ var. alba. Fl. white. Beautiful hedges can be formed by these shrubs.

15 Aloysia, ORTEG.
1 citriodora, Orteg. *Lemon Scented Verbena.* CHILI. s Fl. pale purple.

16 Citharexylum, W.
1 subserratum. AMERICA. Fl. white, in drooping racemes. T

ORDER XCII.

LABIATÆ.

THE LABIATE FAMILY.

This large Order of aromatic herbs is most abundant in the north temperate parts of the world. Shrubby plants are rare. Note the square stem with opposite,

glandular, and exstipulate leaves; also the irregular flower with persistent calyx and deeply 4—lobed ovary, the latter being a special character in this family. The sacred herb 'tulasi' and its congeners are typical plants of the Order, and a careful dissection of their parts will instruct the enquirer better than any written diagnosis. India possesses 55 genera and about 340 species.

1 Ocymum, Linn.

1 canum, Sims. India and Ceylon. ♃ Fl. whitish. *Kan.* Nayi tulasi gida. ನಾಯಿ ತುಳಸಿ ಗಿಡ.

2 Basilicum, Linn. India, Asia and Africa. ♃ *Sweet Basil.* Fl. white-purple. *Kan.* Kammagaggare gida. ಕಮ್ಮಗಗ್ಗರೆ ಗಿಡ.

Note the indigenous varieties *Bili*, (white) *Kammagaggare*, and *Kari* (black) *Kammagaggare.* Also *Kasturi Kammagaggari*, which is supposed to be a distinct var. of *C. Basilicum*.

3 gratissimum, Linn. India and Africa. ♄ Fl. pale yellow.

4 adscendens, Willd. India. ⊙ Fl. pale rose.

5 sanctum, Linn. India, Asia, and Australia. ♃ Fl. white-purple. *Kan.* Tulasi gida. ತುಳಸಿ ಗಿಡ. This plant is held in great veneration by the Hindus. *Olle* (good) *tulasi*, *kari* (black) *tulasi* and *bili* (white) *tulasi* are so many varieties of the species.

2 Orthosiphon, Benth.

1 tomentosus, var. parviflora. S. India. ♄ *Kan.* Kadu Sanna patri gida. ಕಾಡು ಸಣ್ಣಪತ್ರಿ ಗಿಡ.

2 species. ♄ *Kan.* Pennajuttuve gida. ಪೆನ್ನಜುಟ್ಟುವೆ ಗಿಡ.

3 Plectranthus, Linn.

1 rivularis, Wight. India. ♃ Fl. white. *Kan.* Bili bendu gida. ಬಿಳಿ ಬೆಂಡು ಗಿಡ.
2 incanus, Link. India. ♃ Fl. white.

4 Coleus, Lour.

1 spicatus, Benth. S. India. ♃
2 barbatus, Benth. India and Ceylon. ♃
3 aromaticus, Benth. India. Cultd. ♃ *Kan.* Dodda patri gida. ದೊಡ್ಡ ಪತ್ರಿಗಿಡ. *Indian Borage.*
4 scutellarioides, Benth. Australia. ♃

Garden varieties of the genus are much prized as fine-foliage plants.

5 Anisochilus, Wall.

1 paniculatus, Benth. India. u. s.
2 dysophylloides, Benth. India. (Nundidroog) u. s. *Kan.* Bettada kurivellu gida. ಬೆಟ್ಟದ ಕುರಿ ವೇಲು ಗಿಡ.

6 Lavandula, Linn.

1 spica, DC. *Lavender.* S. Europe. ♃ Fl. pale blue.
2 Burmanni, Benth. India. u. s. Fl. blue or white.

7 Pogostemon, Desf.

1 Patchouli, Pellit. ♃ India and Ceylon. Cultd. Fl. white. *Kan.* Patche tene gida. ಪಚ್ಚೆ ತೆನೆ ಗಿಡ. Highly prized by the Hindus.
2 species. A scentless shrub.

8 Dysophylla, Blume.

1 species. A low herb of paddy fields.

9 Perilla, LINN.

1 nankinensis. Introduced. A dark-leaved annual.

10 Mentha, LINN.

1 piperita, Linn. *Peppermint.* EUROPE, ♃ *Hind.* Pudina, ಪುದೀನ.
2 viridis, Linn. *Spearmint.* S. EUROPE. ♃

11 Origanum, LINN.

1 vulgare, Linn. *Common Marjorum.* EUROPE. ♃ Fl. purplish.
2 Marjorana, Linn. *Sweet Marjorum.* N. AFRICA. ⊙

12 Thymus, LINN.

1 vulgaris, Linn. *Common Thyme.* S. EUROPE. ♃

13 Hyssopus, LINN.

1 officinalis, Linn. *Hyssop.* EUROPE. ♃

14 Melissa, LINN.

1 officinalis, Linn. *Balm.* EUROPE. ♃

15 Salvia, LINN.

1 officinalis, Linn. *Common Sage.* S. EUROPE. ♃ Fl, pale blue. *Kan.* Karpúrada gida. ಕರ್ಪೂರದ ಗಿಡ.
2 coccinea, Linn. S. AMER. ♃ Fl. scarlet.
3 splendens, Ker. MEXICO. ♃ Fl. red.
4 patens, Cav. MEXICO. ♃ Fl. blue.
5 argentea, Linn. CRETE. ♃ *The Silvery Clary.* Fl. violet-blue.
6 plebeia, Br. INDIA. ⊙ Fl. whitish.

7 species. ♃ Fl. red.
8 species. ♃ Fl. silvery-violet to pale blue.

16 Marrubium, Linn.

1 vulgare, Linn. *White Horehound.* Europe. ♃ Fl. white.

17 Anisomeles, R. Br.

1 ovata, Br. India and Ceylon. ⊙ Fl. purple. *Kan.* Mangamári soppu. ಮಂಗಮಾರಿ ಸೊಪ್ಪು.
2 malabarica, Br. India and Ceylon. ♄ Fl. purple. *Tel.* Mogabira chettu. ಮೊಗಬಿರ ಚೆಟ್ಟು.

18 Stachys, Linn.

1 lanata, Hort. *Woundwort.* Europe. ♃

19 Leonorus, Linn.

1 sibiricus, Linn. India and Trop. Asia. ⊙ *Siberian Motherwort.*

20 Leucas, Benth.

1 mollissima, Wall. India. ♃ Fl. white.
2 aspera, Spreng. India. ⊙ Fragrant pot-herb. Fl. white. *Kan.* Olle tumbe gida. ಒಳ್ಳೆ ತುಂಬೆ ಗಿಡ.
3 helianthemifolia, Desf. India. ⊙ Fl. white. *Kan.* Kádu tumbe gida. ಕಾಡು ತುಂಬೆ ಗಿಡ.
4 zeylanica, Br. India. ⊙ Fl. white. *Kan.* Hutchu tumbe. ಹುಚ್ಚು ತುಂಬೆ ಗಿಡ.
5 lanata. Benth. Hills of India. ♄ Fl. white.

21 Leonotis, Br.

1 nepetæfolia, Br. India, Trop. Asia and Africa. ⊙ Fl. orange-red, in dense ball-like whorls. *Kan.* Kádu tunge gida. ಕಾಡು ತುಂಗೆ ಗಿಡ.

22 Gomphostemma, WALL.

1 eriocarpum, Benth. S. INDIA. ♃

23 Rosmarinus, LINN.

1 officinalis, Linn. *Rosemary*. EUROPE. ♃

ORDER XCIII.

PLANTAGINEÆ.

THE RIBWORT FAMILY.

A small Order of herbs with radical (ribbed) leaves, and axillary scapes bearing numerous small greenish flowers. The single species here entered is a good type of the family.

1 Plantago, LINN.

1 major, Linn. TROP ASIA. INDIA. ♃ *Kan.* Sirapotli gida. ಸರಪೊಟ್ಟಿ ಗಿಡ.

ORDER XCIV.

NYCTAGINEÆ.

THE MARVEL OF PERU FAMILY.

Herbs, shrubs, or trees, with opposite or alternate leaves of unequal size. The latter are also entire and exstipulate. Flower monochlamydeous and usually involucrate. This is Oliver's first Order of *Incompletæ*, and the term *perianth* is used to denote that one of the floral envelopes is wanting, or if present, that they are about equal in colour, size, and texture. The persistent tube of the perianth encloses the superior one-celled and one-seeded ovary. Note the small yellow flowers of *Bougainvillea*

rendered insignificant between the gaily coloured bracts (involucre) of that genus. Nos. 1, 3 and 4 should be studied.

1 Bœrhaavia, LINN. *Hogweed.*

1 repens, Linn. INDIA. H Fl. reddish.
2 „ var. procumbens, INDIA. H Fl. yellow.
3 „ var. diffusa. INDIA. H Fl. yellow. *Tel.* A'da ataku mámidi áku. ಆಡ ಅಟಕುಮಾಮಿಡಿ ಆಕು.
4 repanda, Willd. INDIA. H Fl. pink. *Kan.* Bekkina ajje balli. ಬೆಕ್ಕಿನ ಅಜ್ಜೆ ಬಳ್ಳಿ.

2 Pisonia, LINN.

1 alba, Spanoghe. ANDAMANS. *Lettuce Tree.*

3 Mirabilis, LINN.

1 Jalapa, Linn. Mexico. *Marvel of Peru.* H Fl. various, red, white, yellow and spotted. *Kan.* Vibhúti, (Nálkughante hú) gida. ವಿಭೂತಿ (ನಾಲು ಘಂಟೆ ಹೂ) ಗಿಡ. This showy herb has become a domestic weed in India. It is commonly known as the *Four-O'clock Plant.*

4 Bougainvillea, COMM.

1 spectabilis, Hook. S. AMER. C Fl. yellow. Bracts violet-purple.
2 „ var. glabra. Lindl. S. AMER. C Fl. yellow. Bracts mauve. These climbers grow and flower very profusely at Bangalore.
3 species C Fl. yellow. Bracts dull-red.

ORDER XCV.

AMARANTACEÆ.

THE AMARANTH FAMILY.

A tropical Order of herbs including many species of "country greens," *i.e.* native vegetables. *Leaves* opposite

or alternate, exstipulate. *Flowers* small, scarious, and closely packed in terminal spikes or panicles. *Perianth* persistent, often partly concealing the membranous one-seeded fruit. *Stamens* 1—5. *Styles* 1—3. Nos. 2, 5 and 8 are good examples of the family. The indigenous shrub *Deeringia celosiuides*, has a berried fruit.

1 Deeringia, R. Br.

1 celosioides, R. Br. India. ♂ Fl. white. Berry red.

2 Celosia, Linn.

1 argentea, Linn. *Silver-spiked Cockscomb.* Trop. Asia. ⊙ Fl. white. *Kan.* Anne soppu. ಅಣ್ಣೆ ಸೊಪ್ಪು.

2 cristata, Linn. *Common Cockscomb.* China. ⊙ Fl. various, usually red or yellow.

3 polygonoides, Retz. India. ⊙ Fl. white.

3 Allmania, Br.

1 nodiflora, Br. India. ⊙ Fl. yellow. *Kan.* Budde soppu. ಬುಡ್ಡೆ ಸೊಪ್ಪು.

4 Digera, Forsk.

1 arvensis, Forsk. India. ⊙ Fl. greenish-white.

5 Amarantus, Linn.

1 spinosus, Linn. India and Ceylon. ⊙ Fl. greenish-white. *Kan.* Mullu dantu. ಮುಳ್ಳು ದಂಟು.

2 paniculatus, Linn. India. Cultd. ⊙ Fl. various, red, yellow and whitish.

„ var. speciosus. ⊙ Fl. red. A handsome garden form.

3 caudatus, Linn. India. Cultd. *Love-lies-bleeding. Prince's Feather.*

4 gangeticus, Linn. TROP. ASIA AND INDIA. ⊙ Fl. white to red. *Kan.* Dantu Soppu. ದಂಟು ಸೊಪ್ಪು.

There are two well marked varieties, the one with pale stem and foliage, *Bili dantu*, (ಬಿಳಿ ದಂಟು) and the other with reddish stem and foliage, *Kempu dantu* (ಕೆಂಪು ದಂಟು.).

5 „ var. melancholicus ruber. A coloured. garden form.
6 „ var. tricolor. A variegated garden form.
7 „ var. inamœnus. INDIA. ⊙ *Kan.* Harive soppu. ಹರಿವೆ ಸೊಪ್ಪು.
8 mangostanus, Linn. INDIA AND CEYLON. ⊙ *Kan.* Chilkarive soppu, ಚಿಲ್ಕರಿವೆ ಸೊಪ್ಪು.

There are also two varieties of this, the *Bili* (white) and the *Kempu* (red.)

9 viridis, Linn. INDIA. ⊙ Fl. greenish-white. *Kan.* Dagli soppu. ದಗ್ಗಿ ಸೊಪ್ಪು. (See Euxolus caudatum, Moq.)
10 Blitum var. oleraceus, Linn. INDIA. Cultd. ⊙ Fl. reddish.
11 polygamus, Linn. INDIA AND CEYLON. ⊙
12 salicifolius, Hort. ⊙ Variegated and willow-leaved.

The varieties *Henderi*, and *Princess of Wales*, are cultivated in gardens, but I am at a loss where to place them in this vaguely defined genus. It is a remarkable fact that all the improved garden forms retrograde very rapidly in India ; and the intermediate forms which thus arise are most distracting.

6 Pupalia, JUSS.

1 orbiculata, Wight. INDIA. ⊠
2 atropurpurea, Moq. INDIA. ⊠ *Kan.* Antu purule gida. ಅಂಟು ಪುರುಳೆ ಗಿಡ.

7 Ærua, Forsk.

1 javanica, Juss. India. A woolly undershrub. Fl. white.
2 lanata, Juss. India and Ceylon. u. s. Fl. white. *Kan.* Bili hindi soppu. ಬಿಳಿ ಹಿಂದಿ ಸೊಪ್ಪು.
3 Monsonia, Mart. India. u.s. Fl. rose. *Kan.* Majjige béru gida. ಮಜ್ಜಿಗೆ ಬೇರು ಗಿಡ.

8 Achyranthus, Linn.

1 aspera, Linn. India. ♃ or u. s. *Kan.* Uttaráni gida. ಉತ್ತರಾಣಿ ಗಿಡ.
2 „ var. argentea. ♃ *Kan.* Bili uttaráni gida. ಬಿಳಿ ಉತ್ತರಾಣಿ ಗಿಡ.
3 species? India. ♃ *Kan.* Akki harive soppu. ಅಕ್ಕಿ ಹರಿವೆ ಸೊಪ್ಪು.

The leaves are used as greens.

9 Alternanthera, Forsk.

1 sessilis, R. Br. India. ⊙ *Kan.* Honogone soppu. ಹೊನಗೊನೆ ಸೊಪ್ಪು.
2 amabile (?) Hort. Amer. ♃
3 spathulata (?) ♃

These herbs are extensively used as edgings to garden paths.

10 Gomphrena, Linn.

1 globosa, Linn. *Globe Amaranth.* India. ⊙ Fl. red. *Kan.* Rudrákshi hú gida? ರುದ್ರಾಕ್ಷಿ ಹೂ ಗಿಡ.
2 „ var. alba. ⊙ Fl. white.

11 Iresine, Willd.

1 Herbstii, Hook. Brazil. ♃
2 „ var. (?) ♃
3 Lindenii, V. Houtte. Ecuador. ♃
4 acuminata, Hook. Brazil. ♃

Valued for their dark-tinted foliage.

ORDER XCVI.

CHENOPODIACEÆ.

THE GOOSEFOOT FAMILY.

Herbs on the sea-shore, in saline tracts, and waste places in various parts of the world. Although nearly allied in structure, the Chenopods differ materially in habit from the Amaranths. Their flowers are also less numerous, more regular, and never scarious or chaffy. *Perianth* inferior, of 3—5 segments. *Stamens* opposite to the latter and usually 5 in number. *Anthers* 2-celled. *Ovary* superior, 1—celled and uniovulate. *Stigmas* 2—4. *Fruit* an utricle, often supported by an accrescent fleshy perianth.

1 Chenopodium, LINN. *Goosefoot.*

1 album, Linn. INDIA. ♃ Fl. whitish. *Kan.* Hutchu, sakotti soppu. ಹುಚ್ಚು ಸಕ್ಕೊತ್ತಿ ಸೊಪ್ಪು.
2 ambrosioides, Linn. INDIA. ♃

There are two varieties, one being red and the other white flowered.

2 Beta, LINN.

1 vulgaris, Linn. *Beet.* EUROPE. ♃

3 Spinacia, LINN.

1 oleracea, Linn. *Common spinach.* ARABIA. ⊙ *Kan.* Basale soppu. ಬಸಲೆ ಸೊಪ್ಪು.

4 Atriplex, LINN.

1 hortensis, Linn. *Orache.* S. EUROPE. ♃ *Kan.* Sakotti (gida) soppu. ಸಕ್ಕೊತ್ತಿ (ಗಿಡ) ಸೊಪ್ಪು.

We have a distinct variety with long narrow leaves, known in the local vernacular as *Nama Sakotti Soppu*;

and so called as the leaves bear some resemblance to the Hindu (sacred) mark on the forehead.

2 repens, Roth. INDIA. U. S.

3 nummularia, Lindl. TROP. AUSTRALIA. S *The Salt Bush.*

5 Basella, LINN.

1 rubra, Linn. INDIA AND CEYLON. A succulent creeper with small red berries. Often cultd. as a pot-herb. *Kan.* Báyi basali balli. ಬಾಯಿ ಬಸಲಿ ಬಳ್ಳಿ.

There is a distinct variety with white berries.

ORDER XCVII.

PHYTOLACCACEÆ.

THE POKEWEED FAMILY.

India possesses but one indigenous species of this small Order. The introduced plant, here entered, is typical in structure.

1 Rivina, PLUM.

1 lævis, Linn. TROP. AMER. AND W. INDIES. S Fl. whitish. Berry bright red.

ORDER XCVIII.

POLYGONACEÆ.

THE BUCKWHEAT FAMILY.

Herbs, rarely shrubs, with alternate simple leaves, and conspicuous, ochreate, stipules. *Flowers* usually very small, with articulations on the pedicels. *Perianth* of

3—6 leaves, free or connate. *Stamens* 5—8. *Ovary* superior, 1—celled, 1—seeded; and usually three cornered. *Styles* 1—3 with an equivalent number of stigmas. The family is mostly prevalent in temperate parts of the world. The tank weed 'Níru ganagalu gida' affords a good type.

1 Polygonum, Linn.

1 plebejum, Br. India. ♃
2 „ var. indicum. Mysore. ⊙ *Kan.* Síranige soppu. ಸೀರನಿಗೆ ಸೊಪ್ಪು.
3 glabrum Willd. Trop. Asia. Africa and Amer. Fl. rose to white. *Kan.* Níru ganagalu gida. ನೀರು ಗಣಗಲು ಗಿಡ.
4 stagninum, Ham. India. ⊙ *Kan.* Kere bendu gida. ಕೆರೆ ಬೆಂಡು ಗಿಡ.
5 barbatum, Linn. India and Trop. Asia. ♃ Fl. white.
6 flaccidum, Meissn. Indian swamps. ♃ Fl. pink.
7 chinense, Linn. India and China. ♄ Fl. white.

2 Fagopyrum, Gærtn.

1 esculentum, Moench. Europe and Asia. ⊙ *Buckwheat.* Fl. whitish.

3 Rheum, Linn.

1 Rhaponticum, Linn. Asia. Cultd. form. ♃ *Rhubarb.* This herb does not succeed in local cultivation.

4 Emex.

1 australis. Australia. An established weed. *Kan.* A'ne neggilu gida. ಆನೆ ನೆಗ್ಗಿಲು ಗಿಡ.

5 Rumex. Linn. *Dock.*

1 vesicarius, Linn. India and Trop. Asia. ⊙ *Kan.* Sukke soppu. ಸುಕ್ಕೆ ಸೊಪ್ಪು.
2 species. ♃

6 Coccoloba, JACQ.

1 platyclada, F. Muell. E. AUSTR. s Fl. cream.

7 Antigonon, ENDL.

1 leptopus, Hook. S. AMER. c Fl. pink to reddish pink, showy.

ORDER XCIX.

NEPENTHACEÆ.

THE PITCHER FAMILY.

A small Order of trailing or climbing, evergreen, undershrubs with alternate leaves and small diœcious flowers. The pitcher-like appendages to the midrib are strikingly characteristic of the family, which is limited to about 30 species of one genus. They are mostly found in the Malay Islands, and Trop. North Australia.

1 Nepenthes, LINN. *Pitcher Plant.*

1 Rafflesiana, Jack. Singapore. c
2 phyllamphora, Willd. Singapore. c

ORDER C.

ARISTOLOCHIACEÆ.

THE BIRTHWORT FAMILY.

A tropical Order of herbs and shrubs, often climbing. *Leaves* alternate, entire or lobed, exstipulate. *Perianth* regular or irregular. In the genus *Aristolochia* very remarkable. *Stamens* 6, forming a compact ring at the base of the style. *Ovary* 4—6—celled with numerous seeds. *Fruit* capsular and berried.

1 Aristolochia, Linn.

1 bracteata, Retz. India and Ceylon. ☿ Fl. purple.
2 indica, Linn. *Indian Birthwort.* ○ Fl. greenish-brown. *Kan.* I'swarí béru. ಈಶ್ವರೀ ಬೇರು.
3 Bonplandii, Tenor. America. ○ Fl. large, fœtid, and greyish-purple.
4 ridicula, Bull. Brazil. ○ Fl. cream and purple.
5 elegans, Bull. Brazil. ○ Fl. purple with creamy articulations.

Order CI.

PIPERACEÆ.

THE PEPPER FAMILY.

An Order of herbs and shrubs mostly confined to tropical America. But *Piper Betle*, the so—called betel-leaf, is more universally known than any plant in India. Note the climbing habit, jointed stem, and aerial roots of many species. Also the small achlamydeous flowers closely packed in catkin-like spikes. *Stamens* 2—8, filaments jointed. *Ovary* one—celled, and usually one—ovuled. *Fruit* a one-seeded berry or coccus.

1 Piper, Linn.

1 longum, Linn. India. Cultd. ○ ☿ *Long Pepper.* *Kan.* Hippali balli. ಹಿಪ್ಪಲಿ ಬಳ್ಳಿ.
2 Chaba, Hunter. India. Cultd. ○
3 Betle, Linn. India. Cultd. ○ *Indian Betel Leaf.* *Kan.* Vílyadele balli. ವೀಳ್ಯದೆಲೆ ಬಳ್ಳಿ.
4 nigrum, Linn. India and Ceylon. ○ *Black Pepper.* Also *White Pepper*, according to the preparation. *Kan.* Menasu balli. ಮೆಣಸು ಬಳ್ಳಿ.

5 sylvestre, Lamk. INDIA. C
6 species, INDIA. C H

2 Peperomia, RUEZ. AND PAV.

1 argyrea, Hort. S. AMER. H
2 „ var. arifolia. H
3 eburnea, Brazil. H
} Foliage pretty.
4 species. Green-leaved succulent herb.

ORDER CII.

MYRISTICEÆ.

THE NUTMEG FAMILY.

Tropical evergreen trees with alternate, entire, exstipulate leaves; and small, regular, diœcious flowers. *Perianth* 3—leaved and valvate in bud. *Anthers* 3 or more, 2—celled. *Fruit* fleshy, but ultimately dehiscent and 2—4 valved. Dissect the nutmeg-plant of gardens.

1 Myristica, LINN.

1 fragrans, Houtt. EASTERN MOLUCCAS. *Nutmeg Tree.* Fl. pale yellow. *Kan.* Jájikayi mara. ಜಾಜಿಕಾಯಿ ಮರ.
2 magnifica, Bedd. INDIA. A handsome Malnad tree. *Kan.* Rámanadike mara. ರಾಮನಡಿಕೆ ಮರ.
3 longifolia, Wall. NORTH INDIA. T

ORDER CIII.

LAURACEÆ

THE LAUREL FAMILY.

An aromatic Order of trees and shrubs mostly confined to warm parts of the world. *Leaves* alternate,

entire, exstipulate ; often gland-dotted and mostly evergreen. The special morphology of the family is found in the peculiar arrangement of the stamens, (anthers especially) and staminodes. *Ovary* superior, sessile, and 1—celled. *Ovule* solitary, suspended from the top of the cell. *Fruit* usually on a thickened peduncle, indehiscent. Note that the genera *Cassytha* (Filiform twining parasites) and *Hernandia* (Evergreen trees) form distinct tribes of the Order.

1 Cinnamomum, Blume.

1 zeylanicum, Breyn. *Cinnamon.* Ceylon. ♄ Fl. creamy-white. *Kan.* Lavangapatte mara. ಲವಂಗಪಟ್ಟೆ ಮರ.

2 species (?) India. ♄ *Kan.* Yellaga mara. ಎಲ್ಲಗ ಮರ.

2 Machilus, Nees.

1 macrantha, Nees. S. India. ♄ Fl. whitish. *Kan.* Chittu tandri mara. ಚಿಟ್ಟುತಾಂಡ್ರಿ ಮರ.

3 Alseodaphne, Nees.

1 semecarpifolia, Nees. S. India. ♄

4 Litsæa, Lamk.

1 species (?) A small tree in the Residency Park.

5 Persea, Gærtn.

1 gratissima, Gærtn. *Alligator Pear.* Trop. Amer. ♄ Fl. cream.

6 Hernandia, Linn.

1 bivalvis, Benth. E. Austr. ♄
2 sonora, Linn. Amer. ♄

ORDER CIV.

PROTEACEÆ

THE PROTEA FAMILY.

An Order of trees and shrubs chiefly confined to the Southern Hemisphere. Abundant in Australia and South Africa. *Leaves* alternate or whorled, often toothed or pinnatisect; exstipulate, usually hard, rigid, and dry. *Flower* hermaphrodite. *Perianth* regular or irregular, 4-leaved, inferior. *Stamens* 4, inserted on the perianth. Staminodes or glands 4, hypogynous. *Ovary* oblique, 1—celled. *Ovules* definite or indefinite. *Fruit* capsular or otherwise. The so-called "Silver oak," *Grevillea robusta*, which is rapidly being established in Southern India, is a fair type of the family.

1 Helicia, LOUR.

1 robusta, Wall. INDIA AND Java. T

2 Macadamia, F. MUELL.

1 ternifolia, F. Muell. N. AUSTR. T *Australian Nut Tree.*

3 Grevillea, R. BR.

1 Forsterii (?)

2 robusta, Cunn. E. AUSTR. T *Silver Oak.* Fl. orange-yellow and scarlet.

4 Hakea, SCHRAD.

1 leucoptera, R. Br. AUSTR. S

2 laurifolia (?) AUSTR. S

3 species. AUSTR. S

ORDER CV.

ELÆAGNACEÆ

THE OLEASTER FAMILY.

A small Order of shrubs and trees. *Leaves* alternate, rarely opposite, entire, exstipulate, and usually covered with silvery scurf-scales. *Flowers* regular, in axillary cymes or clusters; white or pale-yellow. Note the one-seeded fruit usually enclosed in the enlarged tube of the perianth.

1 Elæagnus, LINN.

1 hortensis, M. Bieb. EUROPE. AND ASIA. T Fl. yellow.

2 latifolia, Linn. INDIA AND CEYLON. C S Fl. pale-yellow. *Kan.* Hejjálada mara. ಹೆಜ್ಜಾಲ ಮರ.

ORDER CVI.

LORANTHACEÆ

THE MISTLETOE FAMILY.

A large Order of evergreen, parasitic, shrubs. The tropical genus *Loranthus* counts about 60 Indian species. The position of these, clinging to trees and shrubs, at once marks their character. They have also showy tubular flowers, in red, yellow, and green colours. Fruit a 1—seeded berry. The old mango trees in Mysore are much infested by the species entered in this collection.

1 Loranthus, LINN.

1 longiflorus, Desrouss. India. P. S. Fl. pale-red, yellow and green. *Kan.* Badanike. ಬದನಿಕೆ.

2 „ var. bicolor. INDIA. P. S. Fl. red and white. *Kan.* Sigare badanike. ಸಿಗರೆ ಬದನಿಕೆ.

3 species. INDIA. P. S. Fl. orange-yellow tipped green.
4 species. INDIA. P. S. Fl. small, pale yellow.

ORDER CVII.

SANTALACEÆ.

THE SANDALWOOD FAMILY.

Herbs, shrubs and trees. Some of the former are parasitical and so nearly allied to the *Loranthaceæ* that a careful study of the interior ovary is essential to decide the classification. The sandal tree, *Santalum album*, affords a yearly revenue to the Mysore State of about eight lakhs of rupees £80,000.

1 Santalum, LINN.

1 album, Linn. *Sandalwood Tree.* INDIA. (Mysore) Fl. straw to dull crimson. *Kan.* Srígandha mara. ಶ್ರೀಗಂಧ ಮರ. The most valuable tree in the Mysore country.

ORDER CVIII.

EUPHORBIACEÆ

THE SPURGE FAMILY.

A large Order of tropical herbs, shrubs and trees, usually containing a milky juice. *Leaves* simple, very rarely divided, petiolate, and generally alternate or scattered. *Flowers* small, unisexual, (monœcious or diœcious) achlamydeous, or more commonly with 1—2 floral envelopes. *Perianth* inferior, occasionally double and sometimes wanting. *Stamens* various, but often 1—3, anthers 2—celled. *Ovary* superior, generally 3—celled with 1—2 pendulous ovules in each cell. *Fruit* capsular and dru-

paceous. Nos. 1, 4, 10, 13 and 20 are extreme types of this important but somewhat anomalous family.

1 Euphorbia, Linn. *Spurge.*

1 Bojeri, Hook. Madagascar. s Densely prickly Bracts scarlet.
2 Tirucalli, Linn. *Milk-hedge.* India and Africa. ᴛ *Kan.* Kalli mara. ಕಳ್ಳಿ ಮರ. Fl. yellowish-green.
3 hypericifolia, Linn. India and Ceylon. ⊙ Fl. pinkish-white.
4 pilulifera, Linn. India and Australia. ⊙ *Rabbit Weed,* or *Asthma Plant. Kan.* Atche soppu, and Nene akki soppu. ಅಚ್ಚೆ (ನೆನೇಅಕ್ಕಿ) ಸೊಪ್ಪು.
5 thymifolia, Burm. India, in moist tank-beds.
6 neriifolia, Linn. India. A succulent shrub or small tree. Involucre yellow.
7 antiquorum, Linn. India and Ceylon. A large succulent shrub commonly used for fencing. *Kan.* Bonte kalli mara. ಬೊಂತೆಕಳ್ಳಿ ಮರ.
8 trigona, Haworth. India. A succulent shrub, smaller in all its parts than the foregoing species, and more leafy.
9 helioscopia, Linn. Northern India and Europe. Annual succulent.
10 species. A slender weed of cultivation.

2 Buxus, Linn.

1 sempervirens, Linn. *Box.* Europe. s Thrives indifferently at Bangalore.

3 Bridelia, Willd.

1 retusa, Spreng. India. ᴛ *Kan.* Gurige mara. ಗುರಿಗೆ ಮರ.

4 Phyllanthus, Linn.

1 reticulatus, Poir. India. s

2 Emblica, Linn. TROP. INDIA AND CEYLON. *Awla Tree.* Fl. yellow. *Kan.* Nelli mara. ನೆಲ್ಲಿ ಮರ. Often spoken of in India as the gooseberry tree.

3 maderaspatensis (?) Linn. INDIA. ♅ Fl. greenish-white

4 urinaria, Linn. India AND CEYLON. ⊙

5 simplex, Retz. INDIA AND CHINA. ⊙

6 Niruri, Linn. TROP. INDIA. ⊙ *Kan.* Kirunelli gida. ಕಿರುನೆಲ್ಲಿ ಗಿಡ. An abundant weed.

7 species. Near to the above. Perhaps a variety. *Kan.* Akki soppu. ಅಕ್ಕಿ ಸೊಪ್ಪು.

8 distichus, Muell. INDIA. Cultd. Madagascar, *Star Gooseberry Tree.* Fl. (See *Cicca disticha*, Linn.) *Kan.* Kirunelli mara. ಕಿರುನೆಲ್ಲಿ ಮರ.

5 Glochidion, FORST.

1 zeylanicum, A. Juss. INDIA AND MALAY ISLANDS. ♄

6 Flueggia, WILLD.

1 microcarpa, Blume. INDIA AND CHINA. ♄

7 Breynia, FORST.

1 rhamnoides, MUELL. TROP. INDIA, CEYLON, AND CHINA. ♄ or ♄ *Kan.* Bili súli gida. ಬಿಳಿ ಸೂಲಿ ಗಿಡ. Note also the varieties called Kari, and Anna súli gida.

8 Putranjiva, WALL.

1 Roxburghii, Wall. INDIA. ♄ Fl. yellowish.

9 Antidesma, LINN.

1 Ghæsembilla, Gærtn. INDIA AND CHINA. A small evergreen tree.

Fruit in racemed clusters, and like miniature apples, ¼ in,

10 Jatropha, Linn.

1 glandulifera, Roxb. India and Trop. Africa. s Fl. reddish-purple. *Kan.* Kari turuka haralu gida. ಕರಿ ತುರುಕ ಹರಳುಗಿಡ. Foliage greenish purple to bronze.
2 gossypifolia, Linn. Brazil. s Fl. purplish red.
3 multifida, Linn. S. Amer. *Coral Shrub.* Fl. scarlet.
4 panduræfolia, Andr. Cuba. s Fl. scarlet.
5 podagrica, Hook. S. Amer. Succulent shrub. Fl. scarlet.
6 curcas, Linn. India, cultd. S Amer. s or T *Physic or Purging Nut.* Fl. yellowish green. *Kan.* Turuka or Kádu haralu gida. ತುರುಕ (ಕಾಡು) ಹರಳುಗಿಡ.
7 species. A small shrub.

11 Manihot, Pohl.

1 Glaziovii. *The Ceara Rubber.* S. Amer. s Fl. mottled.
2 utilissima, Pohl. S. Amer. *Tapioca and Bitter Cassava.* H Fl. *Kan.* Kádu, or mara, genasu gadde. ಕಾಡು (ಮರ) ಗೆಣಸುಗಡ್ಡೆ.

12 Aleurites, Forst.

1 moluccana, Willd. Pacific Islands. India, cultd. *Belgaum Walnut Tree.* Fl. white.

13 Croton, Linn.

1 Tiglium, Linn. India and China. Small tree. *Croton Oil Plant.* Fl. greenish-yellow. *Kan.* Jápálada gida. ಜಾಪಾಳದ ಗಿಡ.

Note—A list of the numerous varieties cultivated under this generic name (but properly under the genus *Codiæum*) will be found at the end of the Catalogue. These plants have made their appearance in local gardens within the past fifteen years.

14 Givotia, Griff.

1 rottleriformis, Griff. India and Ceylon. T

15 Codiæum, Juss.

1 variegatum, Blume. India, cultd. Molucca Islands. T

The so-called "garden crotons" originate mostly from this shrub, of which they are so many varieties.

16 Chrozophora, Neck.

1 plicata, A Juss. India. H On the margins of tanks. The *C. prostrata* of Dalzell.

17 Acalypha, Linn.

1 indica, Linn. *Cupamani.* (Tam.) India. ⊙ *Kan.* Kuppi gida. ಕುಪ್ಪಿ ಗಿಡ. A native emetic.
2 fallax, Muell. India and Ceylon. ⊙
3 eremorum, Muell. Australia. S
4 ,, var. glabrata. S (See *tricolor*, Hort.)
5 marginata, Spr. S. S. Islands. S
6 macrophylla. From Calcutta.
7 species. Shrub with bronze, acuminate, twisted leaves.

18 Trewia, Linn.

1 nudiflora, Linn. *Kat-Kumbla Mara.* ಕಾಟಿ ಕುಂಬಳ ಮರ. India. T Male flowers in pale yellow catkins.

19 Mallotus, Lour.

1 philippinensis, Muell. India and Burma. *Kamala Dye Tree.* Fl. rusty. *Kan.* Kunkumada mara. ಕುಂಕುಮದ ಮರ.

20 Ricinus, Linn.

1 communis, Linn. *Castor-oil Plant.* India. ⊙ *Kan.* Haralu gida. ಹರಳು ಗಿಡ.

2 communis, variety. ⊙ Smaller than the above. *Kan.* Chittu haralu gida. ಚಿಟ್ಟು ಹರಳು ಗಿಡ.

21 Gelonium, Roxb.

1 lanceolatum, Willd. India. T Male Fl. creamy white. A pretty tree of conical form.

22 Tragia, Linn.

1 involucrata, Linn. India. C H With stinging hairs.

23 Dalechampia, Plum.

1 Roezliana rosea, A Muell. Mexico. S

24 Sapium, P. Br.

1 sebiferum, Roxb. China. *Tallow Tree.*
2 discolor, Muell. China and Malacca. S (Syn *Excœcaria discolor.*)

25 Excœcaria, Linn.

1 robusta, Hook. India. (Coorg) T

26 Baloghia, Endl.

1 lucida, Endl. Norfolk Isld. and E. Aust. T

27 Poinsettia, Graham.

1 pulcherrima, Graham. Mexico. S Bracts scarlet.
2 „ var. alba. S Bracts white.

28 Hura, Linn.

1 crepitans, Linn. *Sand-box Tree.* S. Amer.

29 Anda,

1 Gomesii. Brazil. T Fruit a very large nut. Fl. white.

30 Hevea, Muell.

1 brasiliensis, Muell. Brazil. ☥ *Para Rubber.*
2 spruceana, Muell. British guiana. ☥ This also affords Para rubber.

31 Xylophylla, Linn.

1 augustifolia, Willd? Jamaica. A rigid shrub with phyllodinous leaves.

32 Pedilanthus, Neck.

1 tithymaloides, Poit. West Indies. Naturalised in India. s Involucre scarlet and slipper-shaped.
2 „ var. variegata. s

33 Synadenium.

1 Grantii. A perennial succulent attaining 12—15 feet. The venation of the leaf is reddish in colour and very beautiful. Introduced.

Order CIX.

URTICEÆ.

THE NETTLE AND FIG FAMILY.

An extensive Order of chiefly tropical herbs, shrubs. and trees. But the species differ so considerably in general architecture, and form of inflorescence, that some botanists prefer to treat the group as two or more distinct families. *Example-Cannabineæ*, (the hemps) *Moreæ*, (the mulberries and figs) *Artocarpeæ*, (the breadfruit and Jack) and *Urticeæ*, the nettles proper. It is necessary therefore to examine types

selected from the several tribes which otherwise substitute this important Order, and although it is admitted that extreme forms might well represent distinct families, still it is more natural and convenient to treat them as one. Fig trees are abundant throughout Mysore, and it is often remarked by the people that they have no flowers. This mistake arises from the latter being concealed within the fleshy receptacle, which is popularly known from the beginning as the fruit. A young fig is therefore the receptacle of the inflorescence. *Leaves* stipulate and mostly alternate. *Flowers* minute, monœcious or diœcious. *Stamens* equal to the perianth lobes and opposite to them. *Ovary* 1—, celled and 1—ovuled. Examine species of Nos. 4, 7, 9 10 and 11.

1 Celtis, Linn.

1 Wightii, Planch. India. ☥ *Kan.* Bendu mara. ಬೆಂಡು ಮರ.

2 Trema Lour.

1 orientalis, Blume. India. ☥ *Charcoal Tree. Kan.* Gorklu mara. ಗೋರ್‌ಕ್ಲು ಮರ.

3 Humulus, Linn.

1 lupulus, Linn. N. Amer. *The Hop.* ♃

4 Cannibis, Tournef.

1 sativa, Linn. *Hemp.* Trop. Asia. ⊙ *Kan.* Bangi soppu gida. ಬಂಗಿ ಸೊಪ್ಪು ಗಿಡ.
Cultivation prohibited in Mysore.

5 Streblus, Lour.

1 asper, Lour. India and China. ♄ ☥ *Kan.* Mitli mara. ಮಿಟ್ಲಿ ಮರ. The Siam "Ton-khoi" from which paper is manufactured.

6 Broussonetia, Vent.

1 papyrifera, Vent. China and Japan. ☥ Fl. dull yellow. *Paper Mulberry.*

7 Morus, Linn.

1 alba, Linn. *White Mulberry.* Asia. ☥ Fruit white or red, cultd.

2 indica, Linn. *Indian Mulberry.* ☥ or ♄ *Silkworm Mulberry.* Fruit red. *Kan.* Reshme or kambali gida. ರೇಷ್ಮೆ(ಕಂಬಳಿ) ಗಿಡ.

3 atropurpurea, Roxb. China. ☥ Fruit dark-purple and very long.

4 nigra, Linn. Europe. *Black Mulberry.* ☥

5 lævigata, Wall. India. ☥ Fruit yellowish white, insipid, and long-cylindric.

8 Dorstenia, Linn.

1 brasiliensis, Linn. Trop. Amer. ♃ Affords the '*Contrayerva Root*' of shops.

9 Ficus, Linn. *Fig Tree.*

1 gibbosa var. parasitica, Koen. India. ☥ *Kan.* Godu mitli mara. ಗೊಡ್ಡು ಮಿಟ್ಲಿ ಮರ.

2 bengalensis, Linn. India. *The Banyan.* ☥ Fruit sessile, in pairs, large and reddish. *Kan.* A'lada mara. ಆಲದ ಮರ.

3 mysorensis, Heyne. India. ☥ Fruit sessile, in pairs, large, orange to orange-red. *Kan.* Góni mara. ಗೋಣಿ ಮರ.

This is the largest species in the Mysore country. It is not unusual to find specimens with trunk 30 feet in circumference, and head diameter 140 feet.

4 tomentosa, Roxb. INDIA AND CEYLON. ☥ Fruit in sessile pairs, rusty-grey ; medium sized. *Kan.* Kallálada mara. ಕಲ್ಲಾಲದ ಮರ.

5 indica, Linn. INDIA. ☥ Fruit in crowded sessile pairs, yellowish red ; medium sized. *Kan.* A'la mara. ಆಲ ಮರ. This is also called the 'Banyan' by English denizens.

6 Benjamina, Linn. JAVA, SUMATRA. ☥ Fruit in scattered sessile pairs, rusty-red ; the size of a large pea. A graceful evergreen tree cultivated in India for scenic effect. Commonly known as the *Java Fig.*

7 „ var. comosa, Kurz. Timor. SUMATRA. ☥ This only resembles *Benjamina* in leaf, and I certainly think it should be maintained as a distinct species. Fruit in scattered sessile pairs, the size of a cherry, rich orange.

8 elastica, Roxb. NORTH INDIA AND BURMA. ☥ *India Rubber Tree.* Fruit in sessile pairs, small, oblong, pale yellow.

9 retusa, Linn. INDIA AND CHINA. ☥ Fruit in sessile pairs, small, dull yellow to red. *Kan.* Pilálada mara. ಪಿಲಾಲದ ಮರ.

10 „ var. nitida, Thunb. INDIA. Only differing from the above in form of leaf and quantity of aerial roots.

11 religiosa, Linn. INDIA AND CEYLON. ☥ *The Sacred Peepul.* Fruit in sessile pairs, the size of a large pea, reddish-purple. *Kan.* Arali, rági, or aswatha mara. ಅರಳಿ (ರಾಗಿ, ಅಶ್ವತ್ಥ) ಮರ.

12 Tsiela, Roxb. INDIA AND CEYLON. ☥ Fruit sessile, crowded, globose, medium sized and purplish. *Kan.* Bili basuri mara. ಬಿಳಿ ಬಸುರಿ ಮರ.

13 infectoria, Roxb. INDIA AND CEYLON. T Fruit in sessile pairs, the size of a large pea, changing from greenish-white to red. *Kan.* Kari basuri mara. ಕರಿ ಬಸುರಿ ಮರ.

14 heterophylla, Linn. INDIA AND CEYLON. O Fruit large, solitary and pear-shaped. This includes *F. repens*, Willd. and *F. scabrella*, Roxb.

15 asperrima, Roxb. INDIA AND CEYLON. T *Sand-paper Tree.* The leaves are used to burnish steel. Fruit stalked, large, yellow to purple. *Kan.* Gargatti mara. ಗರ್ಗತ್ತಿ ಮರ.

16 hispida, Linn. INDIA. T Fruit mostly on the trunk, stalked, turbinate or obovoid; yellowish. *Kan.* Kádatti mara. ಕಾಡತ್ತಿ ಮರ.

17 Roxburghii, Wall. NORTHERN INDIA. T Leaves very large, nearly orbicular. Fruit large, turbinate, crowded at the base of the trunk; russet-brown.

18 glomerata, Roxb. INDIA AND CEYLON. T Known as the "*Country Fig.* Fruit large, crowded on the trunk and main limbs, much eaten by swine and cattle. *Kan.* Atti mara. ಅತ್ತಿ ಮರ.

19 saemocarpa? Miq. INDIA. S Fruit large, subglobose. *Kan.* Kabbasuri mara? ಕಬ್ಬಸುರಿ ಮರ?

20 macrophylla, Desf. EAST. AUST. T *Moreton Bay Fig.* Fruit in axillary pairs, stalked, large, ovoid, purple with orange spots. In foliage this tree is not unlike *F. elastica.*

21 Cunninghami, Miq. QUEENSLAND. T Fruit not seen.

22 carica, Linn. EUROPE. *The Edible Fig.* S or T *Kan.* Anjur gida. ಅಂಜೂರ ಗಿಡ.

23 species. A large umbrella-shaped tree found among rocks. Leaves oblong, rather small,

covered on the underside by tawny tomentum. Fruit small, round and sessile. *Kan.* Kallatti mara. ಕಲ್ಲತ್ತಿ ಮರ.

24 species. A large tree somewhat resembling *F. religiosa. Kan.* Gilke mara. ಗಿಲ್ಕೆ ಮರ.

25 species. A large tree. KANKANHALLI JUNGLE. *Kan.* Séluvarada mara. ಸೇಳುವಾರದ ಮರ.

10 Artocarpus, LINN.

1 incisa, Linn. *Breadfruit Tree.* PACIFIC ISLANDS.

2 integrifolia, Linn. *Jack Tree.* INDIA. *Kan.* Halasina mara. ಹಲಸಿನ ಮರ.

3 hirsuta, Lamk. INDIA. ☥ *Kan.* Heb. halasina mara. ಹೆಬ್ ಹಲಸಿನ ಮರ.

4 Cannoni. A tree with copper-coloured leaves. Recently introduced. Fruit a small purple fig.

11 Urtica, LINN.

1 parviflora, Roxb. INDIA. *Nilgiri Nettle.* ☥ *Kan.* A'ne gajje gida? ಆನೆ ಗಜ್ಜೆ ಗಿಡ?

12 Fleurya, GAUD.

1 interrupta, Gaud. INDIA. ⊙ Stinging. *Kan.* Churachurakana gida? ಚುರಚುರಕನ ಗಿಡ?

13 Girardinia, GAUD.

1 heterophylla, Dcne. INDIA. ☥ Stinging.

2 „ palmata. NILGIRIS. Stinging.

14 Pilea, LINDL.

1 Gardneri. BRAZIL. ☥ *The Gunpowder or Cannon Plant.* This appears to be a larger form of *P muscosa*, Lindl.

15 Bœhmeria, JACQ.

1 nivea, Hook. MALAY ISLDS, CHINA AND JAPAN. *Rhea Fibre* or *Grass-cloth Plant.* s

2 malabarica, Wedd. NORTHERN AND WESTERN INDIA. s

3 platyphylla, Don. Alpine INDIA. s

16 Pouzolzia, GAUD.

1 pentandra ? Benn. INDIA. ⊙

17 Debregeasia, GAUD.

1 velutina, Gaud. HILLS OF INDIA. Fruit clustered, orange-yellow. (See *Conocephalus niveus*, Wight.)

ORDER CX.

PLATANACEÆ.

THE PLANE-TREE FAMILY.

This European Order of deciduous trees is represented in the north of India (North-Western Himalaya) by the Oriental Plane. But the latter is not truly indigenous to this country.

1 Platanus, LINN.

1 orientalis, LINN. LEVANT. T *The Oriental Plane.*

ORDER CXI.

CASUARINEÆ.

THE TINIAN PINE FAMILY.

A small Order of leafless trees and shrubs. Mostly Australian, but also scattered in the Malay and Pacific

Islands. The introduced *Casuarina equisetifolia*, Forst. is extensively cultivated in Mysore, and other parts of India, as a remunerative fuel-tree. It is a graceful pine-like tree, and the mournful soughing of its fluted branchlets is a familiar sound to those who frequent its groves. The proper leaves are reduced to mere scales at the tips of the branchlets. *Flowers* unisexual, monœcious, and dull red. In a country where there are no pines, the scenic effect of this genus is remarkable.

1 Casuarina, LINN.

1 equisetifolia, Forst. CHITTAGONG, southward to MALAY ISDS. AND AUSTRALIA. *The Tinian Pine, and Beefwood Tree. Kan.* Késarike mara. ಕೇಸರಿಕೆ ಮರ.

2 Decaisneana, F. v. Mueller. CENTRAL AUSTR. T

3 glauca, Sieber. AUSTRALIA. *The Desert She-oak.*

4 torulosa, Aiton. SOUTH-EAST AUSTRALIA. T

5 tephrosperma, Miq. AUSTRALIA. T

6 suberosa, Willd. *She-oak.* SOUTH EAST AUSTRALIA.

7 quadrivalvis, Labill. S. E. AUSTRALIA. T

ORDER CXII.

CUPULIFERÆ.

THE OAK FAMILY.

An Order of trees and shrubs mostly confined to the northern hemisphere. Indian species are somewhat abundant in the Himalaya but do not occur on the plains. The specimen in the garden is a stunted tree of 8—10 feet. It is unproductive of flowers and fruit.

1 Quercus, LINN. *The Oak.*

1 species. A small tree. Introduced.

ORDER CXIII.

SALICACEÆ.

THE WILLOW FAMILY.

This Order includes but two genera, *Salix* and *Populus*. But these comprise many species of cold-country trees and shrubs. *Leaves* simple, alternate, deciduous. *Flowers* in diœcious catkins.

1 Salix, LINN.

1 tetrasperma, Roxb. *Indian Willow.* INDIA. ☿ Fl. yellow. *Kan.* Niravanji mara. ನಿರವಂಜಿ ಮರ.

2 babylonica, Linn. *Weeping Willow.* ASIA. ☿ Fl. pale yellow.

ORDER CXIV.

CERATOPHYLLEÆ.

An aquatic family of one species. A tank weed of variable character.

1 Ceratophyllum, LINN.

1 demersum, Linn. ♃ ℞ ALL TEMP. AND TROP. COUNTRIES.

CLASS II.—GYMNOSPERMÆ.

ORDER CXV.

CONIFERÆ.

THE PINE FAMILY.

A large Order of trees and shrubs abundantly preduced in the temperate and cold latitudes of the northern hemisphere. The tribe *Araucarieæ* is mostly confined to the southern hemisphere, *viz.*, Australia, New Zealand and South America. *Leaves* small, rigid, needle-like or broadly subulate. *Flowers* unisexual, in catkins or cones, according to sex. The family is divided into six or more well-defined tribes. Woods of *Casuarina equisetifolia* bear a striking resemblance to the pine forests of northern regions, and in this respect are grateful to European denizens. The rapid spread of this tree, in some localities, will greatly improve the landscape features of the plains.

1 Cupressus, LINN. *Cypress Tree.*

1 torulosa, Don. WESTERN HIMALAYA. ☥ *The Nepaul Cypress.*

2 sempervirens, Linn. EUROPE AND ASIA MINOR. ☥ *The Upright Cypress.*

3 Funebris, Endl. CHINA. ☥ Branches horizontal, branchlets weeping.

4 lusitanica, Mill. INDIA, cultd. ☥ *The Goa Cypress.*

5 Lawsoniana, Murray. NORTHERN CALIFORNIA. ☥

6 macrocarpa, Hartweg ⊤ *The Californian, Cypress.*
7 species. ⊤ Introduced from EUROPE.

2 Juniperus, LINN.
1 chinensis, Linn. *Chinese Juniper.* ⊤

3 Podocarpus, L'HERIT.
1 chinensis, Wall. CHINA. ⊤
2 latifolia, Wall. INDIA. ⊤ This appears to be the only species that affects the south-western Peninsula.

4 Dammara, RUMPH.
1 robusta, C. Moore. E. AUSTR. ⊤ *The Queensland Kauri.*
2 australis, Lamb. *New Zealand Pine.* Also, *Kauri Pine.* A striking conical tree.

5 Pinus, DU. ROI.
1 longifolia, Roxb. *The Cheer Pine.* HIMALAYA. ⊤
2 excelsa, Wall. TEMP. HIMALAYA. ⊤

6 Frenela, MIRB.
1 Gunnii, Endl. *Tasmanian Pine.* ⊤
2 columellaris, F. Muell. AUSTR. ⊤

7 Araucaria, HEUK AND HOCHST
1 Cookii, R. Br. *Caledonian Pine.* N. CALEDONIA. ⊤
2 Bidwillii, Hook. *Bunya Bunya.* E. AUSTR. ⊤
3 Cunninghamii, Ait. *Morteon Bay Pine.* E. AUSTR. ⊤
4 species. AUSTR. ⊤

Strikingly handsome trees for scenic planting. No. 2, is the best.

8 Abies, JUSS.
1 excelsa, D.C. *Norway Spruce.* ⊤
2 Douglasii, Lindl. N. AMERICA. ⊤

9 Wellingtonia, LINDL.
1 gigantea, Lindl. California. *The Mammoth Tree.* (See *Sequoia gigantea*, Torrey.)

10 Cryptomeria, DON.
1 Japonica, Thunb. JAPAN AND CHINA. T

11 Thuja, TOURNEF.
1 orientalis. Linn. *Arbor Vitæ.* CHINA. T

12 Retinospara, ZUCC.
1 plumosa. T
2 Standishii. T
3 lycopodioides T

ORDER CXVI.

CYCADACEÆ.

THE CYCAS FAMILY.

A small tropical family of shrubs, or unbranched miniature trees The simple scaly trunk, surmounted by a horizontal crown of frond-like (pinnate) leaves, makes the Order conspicuous. In popular opinion the various species are viewed as palms or tree-ferns, but it should be noted by the student that they are neither one nor the other, but true gymnosperms.

1 Cycas, LINN.
1 revoluta, Thunb. JAPAN. S
2 circinalis, Linn. INDIA. S or small tree, *Kan.* Goddu íchalu mara. ಗೊಡ್ಡು ಈಚಲು ಮರ.
3 Rumphii, Miq. S or small tree.
4 Beddomei, Dyer. EASTERN GHAUTS. S
5 species? Like *circinalis* but longer in leaf, and deciduous.

2 Macrozamia, MIQ.
1 ceylindrica. S

3 Encephalartus, LEHM.
1 species from CALCUTTA. S

CLASS III MONOCOTYLEDONS.

ORDER CXVII.

HYDROCHARIDEÆ.

THE FROGBIT FAMILY.

Aquatic herbs, mostly in fresh water. Often entirely submerged. *Leaves* undivided. *Flowers* unisexual, spathaceous and regular. *Perianth* leaves 3—6. *Ovary* inferior. *Fruit* mostly indehiscent. *Seeds* numerous. The plants named in this list are plentiful in the Ulsur tank.

1 Hydrilla, RICHARD.
1 verticillata, Casp. Common in tanks. ♃ ♅

2 Lagarosiphon, HARE.
1 Roxburghii, Benth. INDIA. ♃ ♅

3 Vallisneria, LINN.
1 spiralis, Linn. INDIA. S. EUROPE AND AMER. ♃ ♅

4 Blyxa, THOUARS.
1 Roxburghii? Rich. Indian tanks. ⊙ ♃

5 Ottelia, PERS.
1 alismoides, Pers. INDIA AND CEYLON. ♅ Fl. white.

ORDER CXVIII.

ORCHIDEÆ.

THE ORCHID FAMILY.

An Order of herbs (epiphytal aud terrestrial) comprising upwards of 5,000 species. The epiphytal class

abounds in tropical and sub-tropical parts of the world, while 'ground orchids' are more abundant in temperate regions. The diagnostic characters of the family are marked by tubers, or, in the case of aerial orchids, pseudobulbs, very handsome irregular flowers, gynandrous stamens, and an inferior ovary. But for closer observation the student must obtain a key to the Tribes and numerous sub-tribes of this enormous family. Orchids abound largely in the hill tracts of India and Burmah, where many fine species are easily procured. There cultiation under glass has proved so successful that, in Europe, they are now the most fashionable flowers of the day. The genus *Vanilla* affords an aromatic fruit which commands a high market value. It may be seen in local gardens, as also the operation of fertilising its flowers, which is necessary to produce the fruit.

1 Dendrobium, SWARTZ. *Epiphytic Herbs.*

1 barbatulum, Lindl. WESTERN GHAUTS. Fl. small, white.

2 formosum, Roxb. TROP. HIMALAYA. BURMAH. Fl. large, white with golden disk.

3 draconis, Reichb. BURMAH. Fl. ivory-white, disk reddish.

4 albo-sanguineum, Lindl. BURMA. Fl. large, creamy-white with red bars on the lip.

5 crumenatum, Swartz. BURMA. Fl. large, white,

6 secundum, Wall. BURMAH. Fl. deep red to white, with yellow.

7 revolutum, Lindl. Tenasserim. Fl. white with brown lip.

8 Jerdonianum, Wight. WESTERN GHAUT. Fl. yellow.

9 scabrilingue, Lindl. BUMAH. Fl. white, lip yellow and green.

10 primulinum, Lindl. NEPAL AND SIKKIM. Fl. medium, pale-pink to primrose.

11 cretaceum, Lindl. BURMAH. Fl. chalky-white, lip streaked with crimson.

12 Pierardi, Roxb. NORTH INDIA AND BURMAH. Fl. medium, rose, with cream to yellow lip.

13 Crystallinum, Reichb. TROP. HIMALAYA, BURMAH. Fl. medium, white purple tipped; lip orange.

14 Bensoniæ, Reichb. BURMAH. Fl. medium, pale yellow or white; lip yellow with 2 purple spots.

15 aqueum, Lindl. NILGIRIS. Fl. cream-white, lip pale yellow. (See *D. album*, W.)

16 nobile, Lindl. EASTERN HIMALAYA. BURMAH, Fl. purple or white with purple tips and lip.

17 Parishii, Reichb. UPPER BURMAH. Fl. medium rose-purple or white, lip with 2 maroon blotches.

18 Falconeri, Hook. N. INDIA AND UPPER BURMAH. Fl. large, white tipped with purple, lip white, with golden zone and purple disk.

19 pendulum, Roxb. SIAM, BURMAH. (See *D. crassinode*.)

20 Wardianum, Warner. ASSAM AND BURMAH. Fl. large, white tipped with rosy-magenta, lip white and yellow with 2 crimson spots.

21 gratiosissimum, Reichb. BURMAH. Fl. large, white with rosy-purple tips; disk yellow or golden. (See *D. Boxalli*, Reichb.)

22 Aphrodite, Reichb. BURMAH. Fl. pale primrose to white, lip orange and purple. (See. *D. notatum*, Lindl.)

23 Devonianum, Paxt. NORTHERN INDIA, BURMAH, &c. Fl. large rosy-white tipped with purple, lip deeply fringed, white with purple zone and 2 orange spots.

24 Dalhousieanum, Paxt. EASTERN HIMALAYA. BURMAH. Fl. large, cream, suffused with rose; lip with 2 large maroon blotches.

25 tortile, Lindl. BURMAH. Fl. rosy-lilac, with yellow lip.

26 Calceolaria, Carey. TROP. HIMALAYA. BURMAH. Fl. large golden yellow to rosy-purple, lip with 2 maroon or purple blotches, but usually closed. (See *D. moschatum*, Wedl.)

27 fimbriatum, Hook. NORTHERN INDIA AND BURMAH. Fl. medium, orange-yellow.
„ var. oculata, Hook. The same with a purple blotch in the throat.

28 chrysanthum, Wall. TROP. HIMALAYA. Fl. medium, waxy-yellow with crimson spot.

29 densiflorum, Wall. NORTHERN INDIA AND BURMAH. Fl. in dense pendant racemes, dull-white with orange lip.

30 „ var. thyrsiflorum, Reichb. Although reduced to a variety of the foregoing species, this plant is much the finer of the two. Fl.

in large racemes, pure white with rich orange lip.

31 aggregatum, Roxb. ASSAM. BURMAH. Fl. medium. Orange-yellow.

32 chrysotoxum, Lindl. ARRACAN AND BURMAH. Fl. pale-yellow, lip orange and gold, spotted red.

33 Farmerii, Paxt. ASSAM. BURMAH. Fl. whitish tinged with pink or rose, lip white with rich golden centre.

34 Palpebræ, Lindl. NORTHERN INDIA. BURMAH. Fl. white tinged with rosy-pink, lip whitish with orange disk.

35 capillipes, Reichb. UPPER BURMAH. Fl. golden yellow with deep orange blotch.

36 species. Undetermined.

37 species. „ A NILGIRI plant.

Note.—The 'Flora of British India' describes 158 species of this splendid genus.

2 Bulbophyllum, THOUARS. Pseudobulbous herbs with creeping rhizome.

1 fusco-purpureum? Wight. NILGIRIS. Fl. purple.

2 species. Fl. yellow.

3 Eria, LINDL. *Epiphytes.*

1 polystachya, A. Rich. NILGIRIS. Fl. small, yellowish.

2 species? Fl. small, greenish-white.

3 Dalzelli? Lindl. W. GHAUTS. Fl. yellow.

4 Phajus, LOUR. *Terrestrial or Epiphytic Herbs.*

1 Wallichii, Lindl. N. INDIA AND BURMAH. Fl. large, greenish white to rosy purple outside, brown and gold inside.

2 albus, Lindl. N. INDIA AND BURMAH. Fl. large, pure white, or with a coloured lip.

3 „ var. Bensoniæ. Fl. large, rose-purple with a golden and deeper purple lip.

5 Cœlogyne, LINDL. *Epiphytes.*

1 Gardneriana, Lindl. SUB-TROP. HIMALAYA. Fl. large, white.
2 cristata, Lindl. TEMP. HIMALAYA. Fl. large white with yellow markings on the lip.
3 Schilleriana, Reichb. BURMAH. Fl. ochreous, lip mottled yellow and brown.
4 præcox, Lindl. BURMAH. Fl. rose-purple. See *Pleione birmanica*, Reichb.
5 Parishii, Hook. BURMAH. Fl. greenish-yellow with purple disk and bluish lip.
6 species 1 } BURMAH. Received from Mr. Gil-
7 species 2 } „ bert.

6 Pholidota, LINDL.

1 imbricata, Lindl. BURMAH. *Perennial Herb.* Fl. small, dull white.
2 species ?

7 Calanthe, R. BR. *Terrestrial Herbs.*

1 vestita, Lindl. Tenasserim. Fl. rosy white.
2 rosea, Benth. Tenasserim. Fl. large, rose.

8 Arundina, BLUME.

1 bambusifolia, Blume. CHITTAGONG. NEPAL. Terrestrial herb. Fl. red.

9 Cymbidium, SWARTZ.

1 aloefolium, Swartz. BENGAL. BURMA. Fl. Brownish-yellow with lilac-purple lip.
2 ensifolium? Lindl. BENGAL.
3 species.

10 Eulophia, BR. *Terrestrial Herb.*

1 virens, BR. INDIA. Fl. greenish-gold to brown.

11 Cyrtopera, R. W. *Terrestrial Herb.*

1 Cullenii, Wight. INDIA. Fl. yellow.

12 Phalænopsis, BLUME. *Epiphytic Herbs.*

1 species No. 1.
2 „ „ 2. From JAVA. (Beddome.)

13 Ærides, LOUR. *Epiphytic Herbs.*

1 odoratum, Lour. N. INDIA, BURMAH. Fl. white, tipped and lightly shaded with pink. Fragrant.
2 quinquevulnerum? MANILLA.
3 Lindleyana, Wight. INDIA. Fl. rose-white.
4 Wightii. Fl. rosy-purple on a whitish ground.
5 species. BURMAH. Fl. white shaded light purple.

14 Vanda, R. BR. *Epiphytic Herbs.*

1 gigantea. BURMAH. Fl. yellowish, blotched with brown and red.
2 teres, Lindl. N. INDIA. Fl. large, rosy-purple, lip orange streaked with crimson.
3 Roxburghii, R. Br. BENGAL. Fl. greenish-yellow, marbled brown, lip purple.

4 tricolor, Lindl. JAVA. Fl. pale-yellow. Spotted brownish-crimson; lip whitish-purple.
5 Bensoni, BURMAH. Fl. greenish-yellow. Spotted crimson; lip purplish.
6 species. Fl. not seen.

15 Saccolabium, LINDL. *Epiphytic Herbs.*

1 Blumei, Lindl. INDIAN ARCHIPELAGO. Fl. white stained with violet, lip dark rose.
2 giganteum, Lindl. BURMAH. Fl. white, spotted lilac and purple; lip purple. Fragrant.
3 curvifolium, BURMAH AND JAVA. Fl. bright scarlet.
4 paniculatum, Wight. S. INDIA. Fl. white tinged with pink and purple.
5 ampullaceum? BURMAH.
6 species.

16 Vanilla, SWARTZ. *Climbing Herbs.*

1 aromatica, Swartz. BRAZIL. ⊂ Cultd. at Bangalore for its fruit. Fl. greenish-yellow.
2 aphylla, Blume, LINDL.

17 Pogonia, R. BR.

1 species? INDIA. Deciduous. One or two prostrate leaves to each tuber. Begonia-like.

18 Habenaria, R. W. *Terrestrial Herb.*

1 Lindleyana? R. W. MYSORE. Fl. white.

19 Cypripedium, LINN. *Lady's slipper, or the Slipper of Venus.* Terrestrial herbs.

1 barbatum, Hort. MALACCA. Fl. brownish-purple, green and white.
2 Druryii. INDIA.

3 venustum, Wall. SILHET. Fl. greenish-white, lined crimson and purple.
4 insigne, Wall. N. INDIA. Fl. greenish, marked white and purple.

20 Angræcum, P. THOUARS. *Epiphytic Herb.*

1 eburneum? MADAGASCAR. Fl. white.

21 Bletia, RUIZ ET PAV.

1 hyacinthina, Lindl. CHINA. Terrestrial herb. Fl. purple.

22 Oncidium, SW. *Epiphytic Herb.*

1 luridum, Lindl. WEST INDIES. Fl. orange-brown spotted, lurid.

Note.—A number of orchids are still undetermined.

ORDER CXIX.

SCITAMINEÆ.

THE GINGER AND ARROWROOT FAMILY.

Under its tribal divisions of *Zingiberaceæ*-Ginger Tribe—*Marantaceæ*—Arrowroot Tribe—and *Musaceæ*—the Banana and Plantain Tribe—this forms an important and extensive family of mostly tropical herbs. Inflorescence usually spicate or racemose, often radical. *Flowers* irregular, often showy but partially obscured between imbricating spathaceous bracts. *Perianth* leaves superior and in 2 whorls of 3 each. *Stamens* 3, (Musa 6) the two lateral ones often abortive. *Ovary* inferior, 3—celled. *Fruit* 1—3—celled. *Seeds* numerous. Nos. 2,

10 and 11 exhibit the characters of the three Tribes in their respective order of arrangement here. Some botanists treat them as separate Orders.

TRIBE ZINGIBERACEÆ.

1 Alpinia, Linn.

1 nutans, Rosc. India. ♃ Fl. large, crimson white and orange.
2 galanga ? *Kan.* Dumparasme gida. ದುಂಪರಾಸ್ಮೆ ಗಿಡ.
3 calcarata, Rosc. Burmah and China. ♃ Fl. white, faintly spotted rose.
4 vittata, Bull's Catalogue.
5 species. ♃ Fl. not seen.

2 Zingiber, Gaert.

1 officinale, Rosc. *Ginger.* India. ♃ *Kan.* Sontigida. ಸೊಂಟಿ ಗಿಡ. Fl. whitish-purple.
2 zerumbet, Rosc. Moluccas. ♃ Fl. yellow.

3 Costus, Linn.

1 speciosus, Smith. India. ♃ Fl. white.
2 species. ♃

4 Kæmpferia. Linn.

1 ovalifolia, Roxb. Moluccas. ♃ *Indian Crocus.* See. *K. rotunda. Kan.* Nela Sampage gida. ನೆಲ ಸಂಪಗೆ ಗಿಡ. Fl. white to rosy-purple. Fragrant.
2 galanga, Linn. India. Fl. whitish.

5 Hedychium, Kœnig. *Garland Flower.*

1 coronarium, Kœnig. India. ♃ Fl. pure white. Fragrant.
2 flavum, Roxb. India. ♃ (or flavescens, Wall.) Fl. yellow. Fragrant.

3 thrysiflorum. JAVA. H Fl. golden yellow dashed with light red.
4 species. BURMAH. H

6 Curcuma, LINN.

1 longa, Roxb. *Turmeric.* JAVA. H *Kan.* Arisina gida. Fl. yellow and white. ಅರಿಸಿನ ಗಿಡ.
2 Zedoaria, Rosc. *Zedoary.* CHITTAGONG. H
3 lutea-viridis. H
4 species. H

7 Amomum, LINN.

1 angustifolium? INDIA. H

8 Elettaria, MATON.

1 cardamomum, Maton. *Cardamom.* INDIA. H *Kan.* Yelakki gida. ಏಲಕ್ಕಿ ಗಿಡ.
2 species. *The Wild Cardamom.*

TRIBE MARANTACEÆ.

9 Maranta, LINN.

Deciduous or evergreen herbs with beautifully marked leaves. Mostly indigenous to the West Indies and Trop. S. America.

1 zebrina, Sims. S. AMER. H
2 arundinacea, Linn. *Arrow-Root.* W. INDIES. H
3 albo-lineata? HORT. H
4 bicolor, Lind. S. AMER. H
5 Vanden Heckei. BRAZIL. H
6 Veitchii. TROP. AMER. H
7 Makoyana. H
8 Oppenheimi. H
9 Devosiana. H
10 Leopardina. H
11 Seemanii. H
12 Regalis. H
13 nitida. H

See Bull's Catalogue for description.

14 Warscewiczii. H
15 nitens. H
See Bull's Catalogue.

In addition to the above there are six unnamed species.

10 Canna, Linn. *Indian Shot.*

1 indica, Linn. India. H
2 lutea, Ait. S. Amer. H
3 edulis, Ker. Peru. H
4 Warscewiczii, Hort. Amer. H
5 glauca, Linn. India. H
6 coccinea vera, Ait. India. H
7 discolor, Lindl. Trinadad. H
8 gigantea, Desf. Brazil H.
9 elegantissima, Hort. H
10 bicolor, Hort. H

Various shades of red, yellow, and orange mark the flowers of this decorative genus.

TRIBE MUSACEÆ.

11 Musa, Linn.

1 paradisiaca, Linn. *Plantain or Banana.* India. T *Kan.* Bále gida. ಬಾಳೆ ಗಿಡ.
2 textilis, Nees. *Manilla Hemp.* Philipp. T
3 superba, Roxb. India. T
4 ensete. *The Abyssinian Banana.* T
5 sumatrana, Beccari. T. Sumátra. *Variegated Plantain.*

The following varieties of M. paradisiaca are usually found in local cultivation.

Yélakki bále. Large variety. ಏಲಕ್ಕಿ ಬಾಳೆ.
" " small var.
Yele bále. Leaf plantain. ಎಲೆ ಬಾಳೆ.
Gúlúr bále. Large butter plantain. ಗೂಳೂರ ಬಾಳೆ.
" " small var. "
Katte bále. Cooking plantain. ಕತ್ತೆ ಬಾಳೆ.
Madranga bále. ಮದ್ರಂಗ ಬಾಳೆ.
Rasa bále. Dessert plantain. ರಸ ಬಾಳೆ.

Hávu bále. Snake plantain. ಹಾವು ಬಾಳೆ.
Gujja bále. Short plantain. ಗುಜ್ಜ ಬಾಳೆ.
Putta bále. ಪುಟ್ಟ ಬಾಳೆ.
Chandra bâle. Red plantain. ಚಂದ್ರ ಬಾಳೆ.
Jain bále. Honey plantain. ಜೇನ ಬಾಳೆ.
Raja bále. Royal plantain. ರಾಜ ಬಾಳೆ.
Pacha bále. Green plantain. ಪಚ್ಚ ಬಾಳೆ.

12 Heliconia, Linn.

1 aurantiaca, Linn. W. Indies. ♃ Fl. scarlet.
2 aureo-striata. Variegated herb.

13 Strelitzia, Linn.

1 Reginæ ? South Africa. ♃

14 Ravenala, Adans.

1 madagascariensis, Sonner. Madag. *Traveller's Tree.*

Several introduced plants of this Order are still undetermined.

Order CXX.

IRIDACEÆ.

THE IRIS FAMILY.

A large Order of herbs found in various parts of the warm-temperate globe, but most abundantly in South Africa. *Leaves* simple, (often sword-like and equitant as in the *Fleur-de-Lis*), rising from a bulb or rhizome. *Perianth* showy, regular or irregular; superior, and composed of six leaves in two whorls. *Stamens* 3. *Ovary* inferior, 3-celled. *Fruit* capsular. *Seeds* numerous. We have no indigenous representative of the family, but some of the Cape species are popularly cultivated in local gardens.

1 Gladiolus, TOURNEF. *Corn Flag.* H

1 alatus, Linn. C. G. HOPE. H
2 cardinalis, Curt. C. G. HOPE. H
3 communis, Thunb. C. G. HOPE. H
4 tristis, Linn. C. G. HOPE. H
5 gandavensis.

Fl. of various colours in terminal spikes.

2 Iris, LINN. *Fleur-de-Lis.*

1 germanica, Linn. EUROPE. H *German Iris.* Fl. violet-purple.
2 florentina, Linn. EUROPE. H Fl. white.
3 Robinsoniana.

3 Tigridia, JACQ.

1 Pavonia, Pers. *Tiger Flower.* MEXICO. Fl. bright scarlet spotted with crimson.

4 Pardanthus, KER.

1 chinensis, Ker. *Leopard Flower.* CHINA. Fl. orange, spotted red or crimson. *Kan.* Sanna sankudáli gida. ಸಣ್ಣ ಸಂಕುದಾಳಿ ಗಿಡ.

5 Antholyza, LINN.

1 aethiopica, Linn. C. G. HOPE. H Fl. red.

ORDER CXXI.

AMARYLLIDEÆ.

THE AMARYLLIS FAMILY.

An Order of bulbous or fibrous rooted herbs with glabrous leaves and showy flowers. *Perianth* 6-partite and nearly regular, superior, spathaceous, and usually borne upon a stout scape. *Stamens* 6. Other conditions

almost the same as in *Iridaceæ*. The American genus *Agave* is well established in Southern India, where it is much employed as a railway fence. Species are abundant in South Africa, and in Central America. Amaryllids are often mistaken for true lilies, to which they bear a close resemblance.

1 Crinum, Linn.

1 asiaticum, Linn. India. ⊞ Fl. white.
2 „ var. toxicarium, Herb. India. ⊞ Fl. white.
3 giganteum.
4 Sanderianum.
5 formosum.
6 zeylanicum. ⊞ Fl. rosy-purple.
7 species? India. ⊞ *Kan.* Káduírulli gadde. ಕಾಡು ಈರುಳ್ಳಿ ಗಡ್ಡೆ.

2 Pancratium, Linn.

1 zeylanicum, Linn. Ceylon. ⊞ Fl. white, fragrant.

3 Nerine, Herb.

1 sarniensis, Herb. *Guernsey Lily.* Japan. Fl. dark crimson.

4 Amaryllis, Linn.

1 Reginæ, Linn. *Mexican Lily.* W. Indies.
2 Belladonna, Linn. S. Amer. ⊞
3 formosissima, Herb. S. Amer. ⊞
4 psittacina, Ker. Brazil. ⊞
5 latifolia. ? ⊞

Fl. varying from all shades of red to nearly pure white. Very handsome.

5 Eucharis, LINDL.

1 grandiflora, Planch. *Amazon Lily.* S. AMER. Fl. pure white. Fragrant.
2 Mastersii, Fl. pure white. Fragrant.

6 Zephyranthes, HERB. *Zephyr Flower or American. Crocus.*

1 tubispatha, Herb. S. AMER. H Fl. pure white Fragrant.
2 carinata. H S. AMER. Fl. rose.
3 rosea, Lindl. H MTS. CUBA. Fl. bright rose.

7 Curculigo, GÆRTN.

1 recurvata, Dryand. INDIA. H Fl. yellow.
2 „ striata. Leaves striped green and white.

8 Cyrtanthus, AIT.

1 obliques, Ait. S. AFRICA. H Fl. golden yellow.

9 Hæmanthus, LINN. *Blood Flower.*

1 tigrinus, Jacq. CAPE OF GOOD HOPE. H Fl. crimson-orange.
2 coccineus. SOUTH AFRICA. H Fl. red.
3 species. S. AFRICA. A large form. Fl. crimson.

10 Doryanthes, R. BR.

1 Palmerii, S NEW SOUTH WALES. Fl. crimson.

11 Agave, LINN. Large succulents.

1 americana, Linn. *American Aloe.* S Fl. creamy white to pale yellow and greenish. *Kan.* Kattáli. ಕತ್ತಾಳೆ.
2 „ variegata. A striking foliage plant.

3 „ striata. Leaves streaked and marbled with gold.
4 Mexicana, Lour. Furnishes the *Pita Fibre.*
5 rigida, Miller. YUCATAN. Furnishes *Sisal Hemp.*
6 species.

12 Fourcroya, VENT.

1 gigantea, Vent. S. AMER. s Fl. greenish.
2 „ variegata. Leaves white and green, very striking.
3 longæva, Karw and Zucc. T MEXICO. This is the grandest of all the so-called aloes.
4 Beddinghausei. Another fine species from Mexico.

ORDER CXXII.

BROMELIACEÆ.

THE PINE-APPLE FAMILY.

Epiphytical and terrestrial herbs, or undershrubs. Originally indigenous to tropical America but now found in many warm countries. The rigid leaves, sheathing from the rootstock, are characteristic of the Order; as are also the terminal showy flowers. The pine-apple of gardens indicates a more succulent condition of growth than is usually found in allied genera, but otherwise it is a good type of the family. The flowers of *Tillandsia* and *Bromelia* are objects of interest on account of their brilliant colours and long endurance.

1 Æchmea, KUIZ. and PAV.

1 paniculigera ? Fl. blue and scarlet.
2 species. s Fl. scarlet and purple. Probably *Æ. discolor*, Lindl.

2 Ananassa, LINDL.

1 sativa, Lindl. *The Pine Apple.* TROP. AMER. ♃ Fl. bluish-purple. *Kan.* Ananâs gida. ಅನನಾಸ ಗಿಡ.

2 „ variegata.

3 Billbergia, THUNB.

1 zebrina, Lindl. BRAZIL. ♃ Zebra striped.

4 Tillandsia, WILLD.

1 argentea? ♃

2 species. ♃

5 Pitcairnia, L'HERIT.

1 angustifolia, Ait. W. INDIES. ♃ Fl. scarlet.

2 species. ♃

6 Bromelia, LINN.

1 sphacelata, Linn. CHILI. ♃ Fl. purple.

Note.—Some of the above are entered with hesitation as they have not been seen in flower.

ORDER CXXIII.

DIOSCOREACEÆ.

THE YAM FAMILY.

A tropical Order of twining plants having swollen rootstocks or under-ground tubers of a large size. *Leaves* net-viened, petiolate, and mostly cordate. *Flowers* numerous, minute and unisexual; mostly diœcious. *Perianth* 7—partite in both sexes. *Ovary* inferior and 3—celled. *Styles* 3, or united from the base upwards. *Fruit* 1—3

celled. Seeds albuminous, 1—2 in each cell. The indigenous genus *Dioscorea* will be discovered by its vernacular names *mullu genasu gadde*, ಮುಳ್ಳು ಗೆಣಸು ಗಡ್ಡೆ, *mudi genasu gadde*, ಮುಡಿಗೆಣಸು ಗಡ್ಡೆ, and *kádu genasu gadde*, ಕಾಡು ಗೆಣಸು ಗಡ್ಡೆ. They are deciduous twiners with large edible tubers.

1 Dioscorea, Linn.

1 alata. Linn. Trop. Asia. ○ *The Pondicherry Potato.*
2 „ var purpurea, Roxb. India. ○
3 globosa, Roxb. Trop. Asia. ○
4 aculeata, Linn. India. ○ *The Goa Potato. Kan.* Mullu genasu gadde. ಮುಳ್ಳು ಗೆಣಸು ಗಡ್ಡೆ.
5 bulbifera, Linn. India. ○
6 pentaphylla, Linn. India. ○
7 trinerva, ? ○
8 sativa, Linn. W. Indies. *The Common Yam.*

Order CXXIV.

SMILACEÆ.

THE SARSAPARILLA FAMILY.

An Order of climbing herbs and shrubs largely confined to tropical America. It is distinguished from *Dioscoreaceæ* by a superior ovary, the absence of large tubers and the more evergreen nature of the leaves. The latter possess the same aberrant conditions of venation, which should be noted by the student.

1 Smilax, Linn. *Sarsaparilla.*

1 sarsaparilla, Linn. South Amer. ○
2 discolor, South Amer. ○ Variegated.
3 species. Australia. ○

ORDER CXXV.

PHILESIACEÆ.

THE LAPAGERIA FAMILY.

A small Order of Chilian climbers with handsome flowers.

1 Lapageria, LINN.

1 alba, Linn Chili. ○ Fl. pure white.
2 rosea. Chili. ○ Fl. rosy-crimson.

ORDER CXXVI.

LILIACEÆ.

THE LILY FAMILY.

This large Order of herbs, shrubs, and rarely small trees, is represented in every part of the temperate and sub-tropical globe. The bulbous section of the family is marked by very beautiful flowers (true lilies), but the fibrous and tuberous rooted species are usually less conspicuous in this respect. *Leaves* parallel veined, sessile or sheathing. *Perianth* regular, 6—leaved, inferior. *Stamens* 6, inserted on the perianth. *Anthers* conspicuous, introrse. *Ovary* superior, 3—celled. *Fruit* capsular or succulent. *Seeds* numerous. The morphology of this Order should be carefully compared with that of *Amaryllidaceæ*, as showy species of the latter are often mistaken for true lilies. The ovary is superior in the one family and inferior in the other.

1 Lilium, LINN.

1 longiflorum, Thunb. *White Trumpet Lily.* CHINA. ♃ Fl. waxy white, fragrant.

2 giganteum, Wall. NEPAL. ♃ Fl. white, tinged with purple outside.
3 tigrinum, Gawl. *Tiger Lily.* CHINA. ♃ Fl. spotted.
4 Neilgherrense. *Nilgiri Lily.* ♃ Fl. creamy-white.
5 auratum. ♃ Fl. white, spotted red and banded with gold. Very handsome.

Lilies succeed indifferently at Bangalore, owing to the dryness and warmth of the climate.

2 Gloriosa, LINN.

1 superba, Linn. INDIA. ○ ♃ Fl. vermilion-scarlet changing to orange. Tips of petals green. *Kan.* Karadi kannina gadde. ಕರಡಿ ಕಣ್ಣಿನ ಗಡ್ಡೆ.

3 Agapanthus, L'HERIT.

1 umbellatus, L'Herit. *African Blue Lily.* ♃
2 „ fol. variegata. ♃

4 Hemerocallis, LINN. *Day Lily.*

fulva, Linn. ♃ Fl. coppery-orange, mostly double.

5 Anthericum, LINN. *St. Bruno's Lily.*

1 Liliastrum, Linn. EUROPE. ♃ Fl. white.
2 species. Fl. white. (*A Liliago* ?)

6 Tulipa, LINN. *Tulip.*

1 suaveolens, Roth. EUROPE. ♃
2 sylvestris, Linn. „ ♃

Fl. various, white, yellow, maroon and crimson.

7 Polianthes, LINN. *Tuberose.*

1 tuberosa, Linn. INDIA. ♃ Fl. pure white, fragrant.
2 „ fl. pl. Fl. double.

8 Ornithogalum, Linn.

1 species. *Star of Bethlehem.* Egypt. ⊞ Fl. white.

9 Sanseveira, Thunb.

1 Zeylanica, Roscoe. *Bow-string Hemp.* Ceylon. s Fl. lemon white. *Kan.* Manjina náru, ಮಂಜಿನ ನಾರು.

2 cylindrica, Boj. *Ife.* Seychelles. s (See *rotundifolia.*)

3 trifasciata, The flat-leaved.

10 Allium, Linn.

1 cepa, Linn. *Onion.* Sub-Tropl. Old World. ⊞ *Kan.* I'rulli. ಈರುಳ್ಳಿ.

2 ascalonicum, Linn. *Shallot.* Palestine. ⊞

3 sativum, Linn. *Garlic.* Europe. ⊞ *Kan.* Bellulli. ಬೆಳ್ಳುಳ್ಳಿ.

4 porrum, Linn. *Leek.* ⊞ Switzerland.

5 fragrans, Vent. S. Amer. ⊞

11 Asparagus, Linn.

1 racemosus, Willd. *Challa.* (Tel.) India. ○ Fl. white. *Kan.* Majjige gadde. ಮಜ್ಜಿಗೆ ಗಡ್ಡೆ.

2 sarmentosus, Willd. China and India. ○ Fl. whitish.

3 officinalis, Linn. Europe. ⊞

4 plumosus, South Africa. ○ Fl. white.

12 Aspidistra, Ker.

1 punctata, vittata. ⊞

2 lurida. Japan. ⊞ Fl. purple.

3 „ variegata.

13 Dracæna, Linn. *Dragon Tree or Dragons Blood.*

1 terminalis, Lindl. S. S. Islds. s
2 ferrea, Linn, India. s
3 Regina. s
4 Chelsonii. s
5 Shepherdii. s Australia.
6 surculosa. s
7 reflexa? s Australia.
8 australis. s Australia.
9 amabilis. s
10 albicans. s
11 Goldieana. S. W. Trop. Africa.
12 Hendersonii. s
13 Robinsoniana. s
14 metallica. s Samoan Islands.
15 Cinnabari. s
16 Baptistii. s South sea Islands.
17 Cooperii. s
18 splendens. s South sea Islands.
19 Regina. s
20 Lindeni, and many unnamed varieties. s

These shrubs, with their bronze and coppery tints of foliage, are exceedingly useful for indoor decoration.

14 Phormium, Linn.

1 tenax, Forst. *New Zealand Flax.* N. Zealand. s
2 „ variegatum. s

15 Aloe, Linn.

1 indica, Royle. s
2 barbadensis, Mill. *Hedge Aloe.* C. G. Hope. s
3 litoralis, India. ⌘ *Kan.* Lólisara gida. ಲೋಳಿಸರ ಗಿಡ.

16 Yucca, Linn. *Adams Needle.*

1 gloriosa, Linn. N. Amer. s Fl. large, ivory-white.

2 aloifolia, Linn. W. INDIES. s Fl. white.
3 „ variegata.
4 filamentosa, s N. AMERICA. Fl. white.
5 species. s

17 Eustrephus, R. BR.
1 angustifolius, R. Br. E. AUSTR. c Fl. white.

ORDER CXXVII.

PONTEDERIACEÆ.

THE PONTEDERIA FAMILY.

A small Order of aquatic herbs. *Leaves* sheathing. *Petioles* dilated, hollow, or succulent. *Flowers* spathaceous and irregular. *Perianth* 6—leaved. *Stamens* 3 or 6. *Anthers* introrse. *Fruit* capsular. *Seeds* numerous. In canals, ponds, and tanks.

1 Monochoria, PRESL. Aquatic herbs.
1 vaginalis, Linn. INDIA. H
2 hastata, Linn. INDIA. H

ORDER CXXVIII.

COMMELYNACEÆ.

THE SPIDERWORT FAMILY.

Herbs with flattened leaves, which are often sheathing and occasionally succulent. The pretty blue flowers of the 'Kanne Soppu' and its congeners indicate types of the Order.

1 Cyanotis, DON.
1 cristata. R. and S. INDIA. H *Kan.* Bettada kanne soppu. ಬೆಟ್ಟದ ಕನ್ನೆಸೊಪ್ಪು.

2 axillaris, R. and S. INDIA. ☿ *Kan.* Négalu kanne soppu. ನೇಗಲು ಕನ್ನೆ ಸೊಪ್ಪು.

2 Commelyna, LINN.

1 obliqua, Don. INDIA. ☿ *Kan.* Kádu benne bediru soppu. ಕಾಡು ಬೆಣ್ಣೆ ಬಿದಿರು ಸೊಪ್ಪು.
2 communis, Linn. INDIA. ☿ *Kan.* Kanne soppu. ಕನ್ನೆ ಸೊಪ್ಪು.
3 communis, var. angustifolia, Linn. INDIA. ☿ Fl. blue.
4 cœlestis, Willd. MEXICO. ☿ Fl. gentian-blue.

3 Aneilema, B. P.

1 nudiflorum, R. B. INDIA. ☿ *Kan.* Nela chelu soppu and sanna gundu hullu. ನೆಲಚಳು ಸೊಪ್ಪು. ಸಣ್ಣ ಗುಂಡು ಹುಲ್ಲು.

4 Tradescantia, *Spiderwort.*

1 zebrina, Hort. S. AMER. ☿
2 discolor, L'Herit. S. AMER. ☿
3 species. ☿
4 species. ☿

ORDER CXXIX.

PALMACEÆ.

THE PALM FAMILY.

This splendid Order of trees and shrubs is represented in nearly all tropical and sub-tropical countries. The simple stem (trunk) with its terminal crown of noble evergreen leaves, of two typical forms, fan and pinnate, are characteristic conditions of the group. So are the perfect but unisexual flowers, thickly arranged on branching spadices within a protecting spathe. When the

student has made himself familiar with the local toddy palm, *Ichalu*, and the palmyra, *Tále*, he will readily recognise other species of the palm Order.

Economically, it is one of the most useful families of plants.

1 Areca, LINN. *Pinnate-leaved.*

1 catechu, Linn. *Betel-nut Palm.* INDIA. ☥ *Kan.* Adike mara. ಅಡಿಕೆ ಮರ.
2 oleracea, Linn. *Cabbage Palm.* W. INDIES. ☥
3 madagascariensis, Mart. ☥
4 alba, Rumph. MADAG. ☥
5 rubra, Bory. ISL. MAURITIUS. ☥
6 crinata, Bory. BOURBON. ☥
7 species. ☥

2 Arenga, LABILL. *Pinnate-leaved.*

1 saccharifera, Labill. *Sugar Palm.* MOLUCCAS. ☥

3 Borassus, LINN. *Fan-leaved.*

1 flabelliformis, Linn. *Palmyra Palm.* INDIA. ☥ *Kan.* Tále mara. ತಾಳೆ ಮರ.

4 Caryota, LINN. *Pinnate-leaved.*

1 urens, Linn. *Malabar Sago Palm.* ☥ *Kan.* Bagani mara. ಬಗನಿ ಮರ.
2 sobolifera, Wall. INDIA. ☥
3 furfuracea ? Blume. JAVA. ☥
4 species. ☥

5 Chamærops, LINN. *Fan-leaved.*

1 Richiana ? (Richardiana ?)
2 Martiana. Wall. NEPAL. ☥
3 humilis, Linn. AFRICA. ☥

6 Cocos, LINN. *Pinnate-leaved.*

1 nucifera, Willd. *Cocoa-nut Tree.* INDIA. *Kan.* Tengina mara. ತೆಂಗಿನ ಮರ.
2 ,, var. The golden cocoa-nut.

There are several distinct varieties of *C. nucifera* cultivated in local gardens.

7 Corypha, LINN. *Fan-leaved.*

1 australis, R. Br. *Australian Fan-palm.* T
2 umbraculifera, Linn. *Talipot or Fan-palm.* CEYLON.

8 Phœnix, LINN. *Pinnate-leaved.*

1 dactylifera, Linn. ASIA. AND N. AFRICA. T *The Date Palm. Kan.* Kurjoora. ಕರ್ಜೂರ. There are several varieties in local cultivation.
2 sylvestris. Roxb. INDIA. T *Wild Date,* and *Mysore Toddy Palm. Kan.* I'chalu mara. ಈಚಲು ಮರ.
3 farinifera, Roxb. INDIA. T or S *Kan.* Sanna I'chalu. ಸಣ್ಣ ಈಚಲು ಮರ.
4 paludosa. Roxb. INDIA. T
5 rupicola.
6 reclinata, Jacq. AFRICA.
7 pedunculata.
8 acaulis, Buch. INDIA.
9 zeylanica, CEYLON. *The Indi of Ceylon.*

9 Sabal, ADANS. *Fan-leaved.*

1 Adansonii, Guerns. *The Dwarf Palmetto.* CUBA. T
2 Palmetto, Guerns. FLORIDA. T *The Palmetto.*

10 Seaforthia, R. BR. *Fan-leaved.*

1 elegans R. Br. E. AUSTR.

11 **Livistona,** R. Br. *Fan-leaved.*
1 Mauritiana, Wall. Isl. Mauritius. T
2 eupensii ? T

12 **Licuala,** Rumph. *Fan-leaved.*
1 spinosa, Thunb. Singapore. T
2 peltata, Roxb. Burmah. T

13 **Calamus,** Linn. *Pinnate-leaved.*
1 Rotang, Linn. *Rattan-cane Palm.* Trop. Asia. S
2 Jenkinsii ? From Calcutta. C
3 leptospadix ? From Calcutta.
4 callicarpus. C
5 species. C
6 species. C

14 **Elæis,** Jacq. *Pinnate-leaved.*
1 guineensis, Jacq. *African Oil Palm.*

15 **Oreodoxa,** Willd. *Pinnate-leaved.*
1 Regia, Brazil. T *Royal Palm of Cuba.*

16 **Kentia,** Blume. *Pinnate-leaved.*
1 Wendlandii. T

17 **Thrinax,** *Fan-leaved.*
1 elegans. T
2 glauca, T
3 argentea.

18 **Rhapis,** Linn. fil. *Fan-leaved.*
1 flabelliformis, Linn. *Ground Rattan.* China.

19 **Hyophorbe,** Gærtn. *Pinnate-leaved.*
1 Verschaffelti, Gærtn. T Mauritius.

20 **Dictyosperma,** Wendl.
1 alba, Wendl. Mauritius. *The Palmiste.*

21 Dypsis.
1 madagascariensis? MADAGASCAR. ♃

22 Wallichia, Roxb.
1 disticha? INDIA. ♃

ORDER CXXX.

ALISMACEÆ.

THE WATER PLANTAIN FAMILY.

A small Order of aquatic or marsh herbs mostly confined to northern parts of the globe. *Perianth* inferior. *Stamens* ten or indefinite. *Ovaries* superior, one-celled.

1 Sagittaria, LINN.

1 cordifolia. Common in wet land. ♃

ORDER CXXXI.

PANDANACEÆ.

THE SCREW-PINE FAMILY.

A small Order of tropical shrubs and trees. The peculiar spiral arrangement of the evergreen (saw-like) leaves, and the aerial roots of the stem, are marked characters of the genus *Pandanus*. *Flowers* unisexual, crowded on a spadix between numerous bracts; fragrant. *Perianth* scaly or wanting. *Stamens* numerous. *Ovaries* one-celled. Fruit drupaceous and one-seeded, or a berry with many seeds.

1 Pandanus, LINN fil.
1 odoratissimus, Linn fil. *Screw Pine.* ♄ Fl. white, fragrant. *Kan.* Gédige gida. ಕೆದಿಗೆ ಗಿಡ.

2 furcatus variegata? s
3 species. s Leaves entire.
4 species. s

ORDER CXXXII.

TYPHACEÆ.

THE BULLRUSH FAMILY.

Sedge-like herbs growing in water. The small monœcious flowers are gathered into dense brownish cylinders or spikes at the apex of a long stalk.

1 Typha, TOURNEF.

1 elephantina, Roxb. *Elephant Grass.* INDIA. H
Kan. Jumbu Hullu. ಜಂಬು ಹುಲ್ಲು.
2 augustifolia, Linn. INDIA. *Pith Grass.* H

ORDER CXXXIII.

AROIDEÆ.

THE ARUM FAMILY.

This is a large tropical Order of acrid herbs. Having perfect flowers, the Tribe *Acoraceae* is occasionally treated as a separate Order. But collectively the aroids are a well defined natural group. *Leaves* usually large and striking, often variegated or coloured; net-veined, and sheathing. *Flowers* small, unisexual, (*monœcious*) arranged on a spadix within a spathe; the whole supported on a long scape. The indigenous channel herb, *Kesave dantu*, may be studied as a fairly good type of the family. The American, and Indian, climbing aroids are plants of vigorous growth and handsome foliage.

1 Acorus, Linn.

1 calamus, Linn. *Sweet Flag.* Europe. H *Kan* Baje gida. ಬಜೆ ಗಡ.
2 gramineus variegatus. H Grass-like. China.

2 Calla,

æthiopica, (Syn. *Richardia æthiopica*,) *Arum Lily* Fl. white.

3 Aglaonema, Schott.

1 commutatum, Sch. Manilla. H
2 simplex, Blume. Java. H
3 picta compacta. Java. H

4 Alocasia, Schott.

1 indica, Sch. India. H
2 Jenningsii, Veitch. India. H
3 macrorhiza, Sch. India. Polynesia.
4 „ variegata. H
5 Sanderiana. H Eastern Archipelago.
6 Princeps. H Malay, Archipelago.
7 Johnstoni. H Solomon Isdands.
8 Lowii. H
9 metallica. H
10 zebrina. H
11 Reginæ. H
12 Sedeni. H
13 Marshallii. H
14 antiquorum, Sch. India. H *Kan.* Kesave dantu. ಕೇಸವೆ ದಂಟು.
15 gigantea. H
16 violacea alba. H
17 species. (illustris?) Green with black patches.
18 species. H

5 Amorphophallus, Blume.

1 bulbifer, Blume, India. H
2 campanulatus, Blume. *Telinga Potato.* Ceylon. H
3 species.

6 Anthurium, Schott.

1 crystallinum, Andre. Colombia. H
2 magnificum, Andre. Colombia. H (See grande.)
3 scherzerianum, Sch. Costa Rica. H Spathe scarlet.
4 Warocqueanum.
5 Andreanum. Spathe scarlet.
6 candidum. H Colombia. Spathe white.
7 carneum. H Hybrid. Spathe rose-carmine.
8 splendidum. H S. Amer.
9 metallica. H
10 scherzerianum var. Williamsii. H Spathe white, fragrant.
11 regale. H
12 Veitchii. H Colombia.
13 insigne. H Colombia. Also 14 undetermined species.

7 Arisæma, Mart.

1 speciosum, Mart. *Snake Lily.* India. H
2 species. India. A small herb in meadows and among rocks, not exceeding 6—9 inches. Spathe varying in colour from dark purple to green.

8 Arum, Linn. *Lords and Ladies, also Cuckoo Pint.*

1 italicum. S. Europe. *Italian Arum*
2 species ?

9 Caladium, TUBEROUS ROOTED HERBS. Deciduous for 5 months.

1 bicolor, Vent. BRAZIL. H
2 „ var. Chantinii, Lem. BRAZIL. H
3 pictum, DC. BRAZIL. H
4 „ var. Belleymei, Chant. BRAZIL. H
5 tricolor, Hort. H
6 amabile, Hort. H
7 argyrites, Versch. H
8 discolor, Hort. H
9 marmoratum, Mathieu. H
10 mirabile, Hort. H
11 regale, Hort. BRAZIL. H
12 Wightii, H
13 picturatum, K. Koch. S. AMER. H
14 cannærtii. H
15 Dr. Lindley. H
16 E. G. Henderson. H
17 Vicomtesse de la Roque-ordan. H
18 Ceres. H
19 Felicien David. H
20 Madame de la Deransaye. H
21 Madame Hunnebelle. H
22 imperiale. H
23 Auguste Lemoinier. H
24 Agrippine Dimitry. H
25 Coypel. H
26 Duchartre. H
27 Elvina. H
28 Gratiosum. H
29 Gretry. H
30 Helevy. H
31 Houlletii. H
32 Lullii. H
33 Louis Duplessis. H
34 Madame Heine. H
35 Arsince. H

36 Candidum. H
37 Euterpe. H
38 Gluck. H
39 Gaze De Paris. H
40 Madame Lemoinier. H
41 Monsieur D'Halloy. H
42 Madame Alfred Mame. H
43 Reine Marie du Portugal. H
44 Sofia. H
45 Petropolis. H
46 Princess of Wales. H

At Bangalore these beautiful plants attain great perfection. They are in full growth from May to September.

10 Dieffenbachia, Schott.

1 Pearcei, Bull's Cat. H
2 seguine, Sch. W. Indies. *Dumb-cane.* H
3 picta. H
4 loniatum? H
5 Shuttleworthii. H Colombia.
6 Regina. S. America. H
7 Rex. H S. Amer.
8 Leopoldii. H S. Amer.
9 Bausei.
10 triumphans. Colombia. H Also one or two undetermined.

11 Philodendron, Lindl.

1 crinipes. C
2 Carderii, C S. Amer.
3 discolor. C
4 gloriosum. C
5 pertusum. C S. Amer. (See *Monstera deliciosa.*)

12 Pothos, Linn.

1 scandens. Linn. India. C

2 aureus. ○ SOLOMON ISLANDS.
3 argenteus. ○ BORNEO.
4 nitens. ○ EASTERN ARCHIPELAGO.
5 species. ○

13 Syngonium.

1 albo-lineatum, Bull's Cat. CENTRAL AMER. ○
2 Wendlandii. ○ TROP. AMER.
3 species. ○

14 Curmeria, MASTERS.

1 Wallisii, Masters. ⊠ COLOMBIA.

ORDER CXXXIV.

PISTIACEÆ.

THE DUCKWEED FAMILY.

A small Order of floating herbs, or minute plants, usually found in still water. *Flower* 2—3 within the spathe, achlamydeous and monœcious. *Fruit* 1—seeded.

1 Pistia, LINN. *Aquatics.*

1 stratiotes, Linn. *Water Soldier.* INDIA. *Kan.* Antaragange gida. ಅಂತರಗಂಗೆ ಗಿಡ.

2 Lemna, LINN.

1 globosa, Roxb. *Duckweed.* INDIAN TANKS.

ORDER CXXXV.

ERIOCAULONEÆ.

THE PIPEWORT FAMILY.

An Order of grass-like herbs usually found in marshes and paddy-fields. The small globular heads of whitish flowers distinguish the members of this group from sedges or grasses, to which they otherwise bear a strong resemblance. Students should dissect the indigenous weed 'Betta gundu gida' and compare it with types of the two succeeding Orders.

1 Eriocaulon, LINN.

1 quinqueangulare, Linn. TROP. ASIA. ⚥ Fl. white.
Kan. Betta gundu gida. ಬೆಟ್ಟ ಗುಂಡು ಗಿಡ.
2 sexangulare, Linn. TROP. ASIA. ⚥

ORDER CXXXVI.

CYPERACEÆ.

THE SEDGE FAMILY.

A large Order of grass-like herbs found in all parts of the world. But sedges can generally be distinguished from proper grasses by the following *conditions*:—

(*a*) *Stems* jointless, solid, and mostly angular.
(*b*) *Leaves* without ligules, and having closed sheaths.

(*c*) The pistillate flower with or without a tubular perianth.

Sedges usually affect marshy and undrained lands, while some species are entirely aquatic. As compared with grasses their economic value is unimportant.

1 Cyperus, Linn.

1 articulatus, Linn. India. *Kan.* Yale jambu hullu. ಎಳೇ ಜಂಬು ಹುಲ್ಲು.
2 alopecuroides, Nees. India. *Kan.* Bili jambu hullu. ಬಿಳಿ ಜಂಬು ಹುಲ್ಲು.
3 exaltatus, Retz. India. *Kan.* Kempu jambu hullu. ಕೆಂಪು ಜಂಬು ಹುಲ್ಲು.
4 Iria, Linn. India. *Kan.* Dabbe jambu hullu. or Vusumáni? ದಬ್ಬೆಜಂಬು ಹುಲ್ಲು. ವುಸುಮಾನಿ ಹುಲ್ಲು.
5 capillaris, Kœnig. India. *Kan.* Chendu chéni hullu. ಚೆಂಡು ಚೇಣಿ ಹುಲ್ಲು.
6 haspan, Linn. India. *Kan.* Honne hu hullu.
7 difformis, Linn. India. *Kan.* Kari sanna jambu hullu. ಕರಿ ಸಂಣ ಜಂಬು ಹುಲ್ಲು.
8 corymbosus. India. *Kan.* Badra hullu. ಭದ್ರ ಹುಲ್ಲು.
9 rotundus, Linn. India. *Kan.* Tunge hullu ತುಂಗೆ ಹುಲ್ಲು.
10 compressus. India. *Kan.* Vusumani hullu. ವುಸುಮಾನಿ ಹುಲ್ಲು.
11 alternifolius.
12 „ var. variegatus.
13 Pangorei. Rottl. India.
14 esculentus, Linn. *Chuffa or Ground Almond.*
15 sulcinux?
16 species. *Kan.* Hugu hullu. ಊಗು ಹುಲ್ಲು.
17 species.
18 species.

2 Timbristylis, Vahl.

1 schœnoides, Vahl. *Kan.* Kádu gundu hullu, and gadde gundu hullu. ಕಾಡು ಗುಂಡು ಹುಲ್ಲು. ಗಡ್ಡೆ ಗುಂಡು ಹುಲ್ಲು.
2 gigantea, Vahl.
3 Wightiana, Nees. *Kan,* Niru sabbasige hullu. ನೀರು ಸಬ್ಬಸಿಗೆ ಹುಲ್ಲು.
4 „ var. *Kan.* Kádu sabbasige hullu. ಕಾಡು ಸಬ್ಬಸಿಗೆ ಹುಲ್ಲು.

5 monostachya.
6 miliacea.

3 Isolepis, R. Br.

1 holoschœnus. ? R. and S. India. *Kan.* Níru vusumani hullu. ನೀರು ವುಸುಮಾನಿ ಹುಲ್ಲು.
2 squarrosa, R. and S. India. *Kan.* Kádu vusumani hullu. ಕಾಡು ವುಸುಮಾನಿ ಹುಲ್ಲು.
3 barbata, R. B. India. *Kan.* Chavuri hullu. Katte ládi hullu. ಚವುರಿ ಹುಲ್ಲು. ಕತ್ತೆಲಾಡಿ ಹುಲ್ಲು.

4 Scirpus, R. B. *Club-rush.*
1 mucronatus Linn. India. *Kan.* Hommugali hullu. ಹೊಂಮುಗಳಿ ಹುಲ್ಲು.

5 Courtoisia, Nees.
1 cyperoides, Nees. India. *Kan.* Bili sanna jambu hullu. ಬಿಳಿ ಸಂಣ ಜಂಬು ಹುಲ್ಲು.

6 Tuirena, Lam.

1 glomerata, Lam. India. *Kan.* Petlu gori hullu. ಪೆಟ್ಲುಗೋರಿ ಹುಲ್ಲು.
2 „ „ var. ciliaris.

7 Kyllingia, W.

1 brevifolia, Plott. India. *Kan.* Ananta gonde hullu. ಅನಂತಗೊಂಡೆ ಹುಲ್ಲು.

Order CXXXVII.

GRAMINEÆ.

THE GRASS FAMILY.

This splendid Order of plants is abundantly represented in all fertile parts of the world, where it furnishes cereal crops to the husbandman and green verdure

to the fields. In the tropical genus *Bambusa* it attains an arborescent size. Grasses have hollow jointed stems; alternate leaves with opening sheaths, and usually a small ligule at the base of the blade. *Flowers* glumaceous. *Stamens* rarely more than three, anthers large and versatile. *Ovary* superior, stigmas feathery. *Fruit* a caryopsis. *Seed* mealy, and often nutritious.

1 Triticum, Linn.

1 vulgare, Linn. Europe. ⊙ *Wheat. Kan.* Godhi. ಗೋಧಿ.

2 Oryza, Linn.

1 sativa, Linn. *Rice.* India. ⊙ *Kan.* Nellu ನೆಲ್ಲು.

The local Museum contains specimens of 108 varieties of this grain. The kinds are distinguished from each other by varying conditions of size, form, colour, and hairiness; as also by the uses to which they are applied and their conditions of growth. There are, of course, vernacular names for all.

3 Zea, Linn.

1 Mays, Linn. *Maize or Indian Corn.* Trop. Amer. *Kan.* Jola. ಜೋಳ.

4 Euchlæna, Schrader.

1 luxurians, Durien in Bull. *Teosinte.* Guatemala. ⊙

5 Paspalum, Linn.

1 brevifolium, Flueg. India. *Kan.* Sanna tapri hullu. ಸಣ್ಣ ತಪ್ರಿ ಹುಲ್ಲು.

2 scrabiculatum, Linn. India.

6 Panicum, Linn.

1 indicum, Linn. India. *Kan.* Kari korle hullu ಕರಿ ಕೊರ್ಲೆ ಹುಲ್ಲು.

2 sanguinale. Linn. India. *Kan.* Bili akkabu hullu and gandu akkabu hullu. ಬಿಳಿ ಅಕ್ಕಬು ಹುಲ್ಲು, ಗಂಡು ಅಕ್ಕಬುಹುಲ್ಲು.

3 distachyum, Linn. India. *Kan.* Hambu hárak[a] hullu. ಹಂಬು ಹಾರಕ ಹುಲ್ಲು.

4 Petiverii, Trin. India. *Kan.* Kádu baragu hullu. ಕಾಡು ಬರಗು ಹುಲ್ಲು.

5 psilopodium ? Trin. India. *Kan.* Bili sáme hullu. ಬಿಳಿ ಸಾಮೆ ಹುಲ್ಲು.

6 prostratum ? Lam. India. *Kan.* Kádu bili sáme hullu. ಕಾಡು ಬಿಳಿ ಸಾಮೆ ಹುಲ್ಲು.

7 repens, Linn. *Ginger Grass.* India. *Kan.* Sonti hullu. ಸೊಂಟಿ ಹುಲ್ಲು.

8 erucæforme, Siebol. India. *Kan.* Antu garike hullu. ಅಂಟು ಗರಿಕೆ ಹುಲ್ಲು.

9 brizoides, Linn. India. *Kan.* Kádu haraka hullu. ಕಾಡು ಹಾರಕ ಹುಲ್ಲು.

10 interruptum, Willd. India. *Kan.* Hodike hullu. ಹೊಡಿಕೆ ಹುಲ್ಲು.

11 fimbriata, Nees. India. *Kan.* Niru sajje hullu. ನೀರು ಸಜ್ಜೆ ಹುಲ್ಲು.

12 fluitans, Linn. India. *Kan.* Gadde vadavina hullu. ಗದ್ದೆ ವಡವಿನ ಹುಲ್ಲು.

13 miliaceum, Willd. *Little Millet.* S. Europe. ⊙ *Kan.* Baragu. ಬರಗು.

14 jumentorum, Pers. *Guinea Grass.* S. Amer.

15 miliare, Linn. *Nella shama.* (Tel.) S. Europe. ⊙

16 italicum, Linn. *Italian Millet.* S. Europe. *Kan.* Navane. ನವಣೆ.

17 frumentaceum, Roxb. *Bonta shama.* (Tel.) S. EUROPE. *Kan.* Sáme. ಸಾಮೆ.

18 ovalifolium. S. EUROPE.

19 latissimum, Mikan. INDIA. BRAZIL.

20 semiverticellatum. INDIA. *Kan.* Haraka. ಹಾರಕ.

21 species. *Kan.* Dodda tapri hullu.

7 Penicillaria, SWARTZ.

1 spicata. Swartz. *Spiked Millet or Kumboo.* ⊙ (See *Holcus spicatus*) *Kan.* Sajje. ಸಜ್ಜೆ.

8 Setaria, BEAUV.

1 glauca, Beauv. ⊙ INDIA. *Kan.* Bili korle hullu. ಬಿಳಿ ಕೊರ್ಲೆ ಹುಲ್ಲು.

2 verticillata, Beauv. ⊙ INDIA. *Kan.* Sanna antu purule hullu. ಸಣ್ಣ ಅಂಟು ಪುರುಳೆ ಹುಲ್ಲು.

3 italica, INDIA. *Kan.* Korle hullu. ಕೊರ್ಲೆ ಹುಲ್ಲು.

4 macrostachya, INDIA. *Kan.* Sunku tene hullu. ಸುಂಕುತೆನೆ ಹುಲ್ಲು.

9 Saccharum, LINN.

1 spontaneum, Linn, INDIA. *Kan.* Darbhe or hodake hullu. ದರ್ಭೆಹುಲ್ಲು. ಹೊಡಿಕೆಹುಲ್ಲು.

2 officinarum, Linn. *Sugar-cane.* INDIA. *Kan.* Kabbu. ಕಬ್ಬು.

10 Andropogon, LINN.

1 pertusus, Willd. INDIA. *Kan.* Karada kaci hullu. ಕಾರದ ಕಾಸಿ ಹುಲ್ಲು.

2 Bladhii. Retz. INDIA. *Kan.* Ganjalu garike hullu. ಗಂಜಲು ಗರಿಕೆ ಹುಲ್ಲು.

3 muricatus, Retz. *Kus-kus Grass.* INDIA. *Kan.* Gandu gangala garike hullu. ಗಂಡು ಗಂಜಲ ಗರಿಕೆ ಹುಲ್ಲು.

4 schœnanthus, Linn. *Lemon Grass.* INDIA. *Kan.* Nese or lavanchi hullu. ನೆಸೆ ಹುಲ್ಲು. ಲಾವಂಚಿ ಹುಲ್ಲು.

5 nardus, INDIA. *Kan.* Bettada lale hullu. ಬೆಟ್ಟದ ಲಾಳೆ ಹುಲ್ಲು.

11 Sorghum, PERS.

1 Halepense, Pers. INDIA. *Kan.* Hutchu jola. ಹುಚ್ಚು ಜೋಳ.

2 vulgare, Pers. *Great Millet or Cholum.* INDIA. ⊙ *Kan.* Bili jola. ಬಿಳಿ ಜೋಳ.

3 saccharatum, Pers. *Chinese Sugar-cane.* ⊙ CHINA.

4 kaffranium?

5 species. AMER. Minnesota early amber-cane.

12 Cymbopogon, SPR.

1 pachnodes, Trin. White, large, thatching grass. *Kan.* Bili dodda kachi hullu. ಬಿಳಿ ದೊಡ್ಡ ಕಾಚಿ ಹುಲ್ಲು.

13 Chrysopogon, TRIN.

1 species, near gryllus. INDIA. *Kan.* Kari dhappahanchi hullu. ಕರದಪ್ಪಹಂಚಿ ಹುಲ್ಲು.

2 cæruleus, Nees. INDIA. *Kan.* Huli mise hullu. ಹುಲಿ ಮಿಸೆ ಹುಲ್ಲು.

14 Coix, LINN.

1 Lachryma, Linn. *Job's Tears.* INDIA.

15 Apluda, NEES.

1 communis, Nees. Small black thatching grass. INDIA. *Kan.* Sanna kari káchi hullu. ಸಣ್ಣ ಕರಿ ಕಾಚಿ ಹುಲ್ಲು.

16 Anatherium, Palis.

1 muricatum, India. *Kan.* Kádu kari dhappa sajje hullu. ಕಾಡು ಕರಿ ದಪ್ಪ ಸಜ್ಜೆ ಹುಲ್ಲು.

17 Aristida, Linn.

1 cærulescens, Desf. *Large Broom Grass.* India. *Kan.* Dodda hanchi hullu. ದೊಡ್ಡ ಹಂಚಿ ಹುಲ್ಲು.

2 „ var. *Kan.* Kari sanna hanchi hullu. ಸಣ್ಣ ಹಂಚಿ ಹುಲ್ಲು.

3 adscensionis. India. *Kan.* Kádu nose hullu. ಕಾಡು ನೊಸೆ ಹುಲ್ಲು.

4 species?

18 Cynodon, Linn.

1 dactylon, Pers. *Hariali or Doub Grass.* India. *Kan.* Garike hullu. ಗರಿಕೆ ಹುಲ್ಲು. This is the best Indian grass for making hay.

19 Chloris, Swartz.

1 barbata. India. *Kan.* Manchada kálu hullu. ಮಂಚದ ಕಾಲು ಹುಲ್ಲು.

20 Microchloa, R. Br.

1 setacea, R. By. *Peacock-coloured Grass. Kan.* Navilu bannada hullu. ನವಿಲು ಬಣ್ಣದ ಹುಲ್ಲು.

21 Lappago, Schreb.

1 racemosa, Willd. *Kan.* Puttu antu purule hullu. ಪುಟ್ಟು ಅಂಟು ಪುರುಳೆ ಹುಲ್ಲು.

22 Isachne, R. Br.

1 australis, R. Br. *Kan.* Kádu sanna sáme hullu. ಕಾಡು ಸಣ್ಣ ಸಾಮೆ ಹುಲ್ಲು.

23 Sporobolus, R. Br.

1 annulatus, Munro. *Fox-tail Grass.* India. *Kan.* Nari bálada hullu. ನರಿ ಬಾಲದ ಹುಲ್ಲು.

2 elongatus, R. Br. India. *Kan.* Navilu dondi hullu. ನವಿಲು ದೊಂದಿ ಹುಲ್ಲು.

24 Oplismenus, Palis.

1 Colonus, K. India. *Kan.* Jadé shankara hullu or tene hullu. ಜಡೇ ಶಂಕರ ಹುಲ್ಲು, ತೆನೆ ಹುಲ್ಲು.

2 „ variety. *Kan.* Dodda antu purule hullu. ದೊಡ್ಡ ಅಂಟು ಪುರುಳೆ ಹುಲ್ಲು.

3 Galli Crus, K. India. *Kan.* Kádu dabbe hullu. ಕಾಡು ದಬ್ಬೆ ಹುಲ್ಲು.

4 frumentaceus? India. *Kan.* Hutchu kórle hullu. ಹುಚ್ಚು ಕೋರ್ಲ ಹುಲ್ಲು.

25 Manisurus, Linn.

1 granularis, S. C. India. *Kan*, Kádu sanna hárka hullu. ಕಾಡು ಸಣ್ಣ ಹಾರಕ ಹುಲ್ಲು.

26 Batratherum, Nees.

1 violaceum? India. *Kan.* Nela bidaru hullu. ನೆಲ ಬಿದರು ಹುಲ್ಲು.

27 Trachys, Pers.

1 mucronata, Pers. India. *Kan.* Mara akkabu hullu, or parangi akki hullu. ಮರ ಅಕ್ಕಬು ಹುಲ್ಲು-ಪರಂಗಿ ಅಕ್ಕಿ ಹುಲ್ಲು.

28 Dactyloctenium, Willd.

1 ægyptiacum Willd. *Buffalo-head Grass.* India *Kan.* Kónana tale hullu. ಕೋಣನ ತಲೆ ಹುಲ್ಲು.

29 Leptochloa, Palis.

1 chinensis, Nees. India. *Kan.* Kádu sanna kari sajje hullu. ಕಾಡು ಸಂಣ ಕರಿ ಸಜ್ಜೆ ಹುಲ್ಲು.

2 arabica, K. INDIA. *Kan.* Nari bálada gandu hullu. ನರಿ ಬಾಲದ ಗಂಡು ಹುಲ್ಲು.

30 Perotis, AIT.

1 latifolia, Ait. INDIA. *Kan.* Juburu kóle hullu, or nari bálada hullu. ಜುಬುರು ಕೋಲ್ಲೆ ಹುಲ್ಲು. ನರಿಬಾಲದಹುಲ್ಲು.

31 Eragrostis, PALIS.

1 plumosa, Linn. INDIA. *Kan.* Sanna purule hullu. ಸಣ್ಣ ಪುರುಳೆ ಹುಲ್ಲು.

2 poæoides, Beauv. INDIA. *Kan.* Sanna hugu hullu, or Dodda purule hullu. ಸಣ್ಣ ಊಗು ಹುಲ್ಲು. ದೊಡ್ಡ ಪುರುಳೆ ಹುಲ್ಲು.

3 verticillata, Beauv. INDIA. *Kan.* Kâdu sanna sami hullu. ಕಾಡು ಸಂಣ್ಣ ಸಾಮೆ ಹುಲ್ಲು.

4 megastachya, Beauv. INDIA. *Kan.* Bettada akkabu hullu. ಬೆಟ್ಟದ ಅಕ್ಕಬು ಹುಲ್ಲು.

5 ciliata, Nees. INDIA. *Kan.* Kádu navane hullu ಕಾಡು ನವಣೆ ಹುಲ್ಲು.

6 nutans, Retz. INDIA. *Kan.* Kadu jadé navane hullu. ಕಾಡು ಜಡೇ ನವಣೆ ಹುಲ್ಲು.

7 ciliaris, Link. INDIA. *Kan.* Kádu kambu hullu ಕಂಬು ಹುಲ್ಲು.

8 unioloides.

9 bifaria, INDIA. *Kan.* Jari hullu. ಜರಿ ಹುಲ್ಲು.

10 Tennisina, INDIA. *Kan.* Kádu gasagase hullu ಕಾಡು ಗಸಗಸೆ ಹುಲ್ಲು.

11 innoloides.

32 Leersia, HEDW.

1 hexandra, Sev. INDIA. *Kan.* Kádu bili sajjabu. hullu. ಕಾಡು ಬಿಳಿ ಸಜ್ಜಬು ಹುಲ್ಲು.

33 Chamæraphis, R. Br.
1 hordeacea, R. Br. India. *Kan.* Níru baragu hullu. ನೀರು ಬರಗು ಹುಲ್ಲು.

34 Imperata, Cyrill.
1 arundinacea, Cyr. India. *Kan.* Sanna dabbe hullu. ಸಣ್ಣ ದಬ್ಬೆ ಹುಲ್ಲು.

35 Gymnothrix, Palis.
1 alopecurus, Nees. India. *Kan.* Nose hullu. ನೊಸೆ ಹುಲ್ಲು.

36 Spodiopogon, Trin.
1 obliquivalvis, Nees. India. *Kan.* Mobbu ganjala garike hullu. ಮೊಬ್ಬು ಗಂಜಲ ಗರಿಕೆ ಹುಲ್ಲು.

37 Heteropogon, Pers.
1 contortus, All. India. *Kan.* Kari vunagada hullu. ಕರಿ ಪುನಗದ ಹುಲ್ಲು.

38 Elytrophorus, Palis.
1 articulatus, R. Br. India.

39 Anthisteria, Linn.
1 ciliata, Retz. India. *Kan.* Gantu káchi (Nále?) hullu. ಗಂಟು ಕಾಚಿ (ನಾಲೆ) ಹುಲ್ಲು.

40 Hemarthria, R. Br.

1 compressa, R. Br. India. *Kan.* Sunku dabbe hullu. ಸುಂಕು ದಬ್ಬೆ ಹುಲ್ಲು.

41 Arundinella, Raddi.
1 setosa, Trin. India. *Kan.* Hakki várji hullu. ಹಕ್ಕಿ ವಾರ್ಜಿ ಹುಲ್ಲು.
2 pilosa.

42 Eleusine, Gaert.
1 coracana, Gaert. India. *Kan.* Rági. ರಾಗಿ. The staple grain of Mysore.
2 indica, Gaert. India.

43 Avena, LINN.

1 elatior, Linn. *Oat Grass.* EUROPE. ⊙

44 Briza, LINN.

1 maxima, Linn. *Quaking Grass.* EUROPE.

45 Dactylis, LINN. *Cocksfoot Grass.*

1 glomerata fol, variegata. EUROPE.

46 Lolium, LINN.

1 perenne tenus, Linn. *Darnel Rye Grass.* EUROPE.

47 Heleochloa, HOST.

1 species. INDIA. *Kan.* Jandu hullu. ಜಂಡು ಹುಲ್ಲು.

TRIBE BAMBUSACEÆ.

48 Dendrocalamus, NEES.
1 Hamiltoni.

49 Arundinaria, MICH.
1 Khasyana ?
2 species.

50 Bambusa, SCHREB. *Bamboo.*
1 arundinacea, Retz. *Common prickly.* INDIA. ⊤ *Kan.* Bidiru. ಬಿದರು.
2 stricta, Roxb. *Boarspear or Male Bamboo.* BENGAL. ⊤ *Kan.* Gandu bidiru. ಗಂಡು ಬಿದರು.
3 gigantea, Wall. BURMA. ⊤
4 vulgaris, Wendl. CEYLON. ⊤ *The Golden Bamboo.*
5 species ⊤

51 Beesha, RHEEDE.
1 Rheedii, Kunth, *Quill Bamboo.* INDIA.
2 fol. variegata. INDIA.

5 pectinatum,
6 tenerum, Sw. Trop. Amer.
7 gracile ?
8 caudatum, Linn. Tropics everywhere.
9 æthiopicum,
10 capillus-veneris, Linn. Trop. and Temp. regions.
11 lunulatum, Burm. Tropics everywhere.
12 cuneatum, L. and F. Trop. Amer.
13 „ var. gracillimum. Trop. Amer.
14 hispidulum, Sw. Tropics of Old World.
15 Farleyense.
16 intermedium, Sw. Trop. Amer.
17 Mooreii, Trop. Amer.
18 venustum, Trop. Amer.
19 decorum, Moore. Trop. Amer.
20 tinctum, Moore. Trop. Amer.
21 trapeziforme, Linn. Trop. Amer.
22 „ variety.
23 concinnum, H. B. K. Trop. Amer.
24 rhodophyllum.
25 villosum.
26 Santa Catherinæ.
27 La grande.
28 Funckii.
29 tetraphyllum.
30 fragrantissima.
31 species No. 1.
32 species, No. 2.

4 Alsophila, R. Br. *Tree Fern.*
1 latebrosa.

5 Anemia, Swartz.
1 tomentosa, Sw. Trop. Amer.

6 Angiopteris, Hoffm.
1 evecta, Hoffm. India, &c.

7 Aspidium, Swartz. *Shield or Wood Fern.*

1 aculeatum, Sw. Cosmopolitan.
2 auriculatum, Sw. East Indies.
3 falcatum, Sw, Japan, &c.
4 membranaceum, Hook. Trop. Asia.

8 Asplenium, Linn. *Spleenwort.*

1 japonicum, Thunb. Japan.
2 lasiopteris,
3 latifolium, Don. Trop. Asia.
4 lunulatum,
5 nidus, L. Trop. O. World. *Birds Nest Fern.*
6 formosum, Willd. Trop. Amer.
7 furcatum, Thunb. Trop. and Sub-trop. regions.
8 variens.
9 elongatum, Hook.
10 digophyllum,
11 polypodioides, Mett. Trop. Asia.
12 resectum,
13 sylvaticum, Presl. Tropics.
14 ventatum,
15 esculentum, Presl. Trop. Asia.
16 zeylanicum, Hook. Ceylon.
17 tenuifolium,
18 ensiforme,
19 dimorphum, Hze. Norfolk Island.
20 bulbiferum, Forst. Australia, &c.

9 Athyrium, *Lady Fern.*

1 falcatum.

10 Blechnum, Linn. *Hard Fern.*

1 cartilagineum, Sw. Australia.
2 occidentale, L. Trop. Amer.
3 orientale. India.
4 longifolium, H. B. K. Trop. Amer.

11 Ceropteris.

1 thalictroides.

12 Cheilanthus, Sw.

1 farinosa, Kaulf. TROPICS everywhere.

2 mysorensis.
3 tenuifolia.

13 Cyrtomium,

1 falcatum, Sw.
2 „ var. caryotideum. WALL.

14 Davallia, SMITH.

1 fijiensis plumosa. FIJI. ISDS.
2 platyphylla, Don. EAST INDIES.
3 Speluncæ, Baker. TROPICS, cosmopolitan.
4 strigosa, Sw. TROP. AND SUB-TROP. ASIA.
5 tenuifolia, Sw. TROPICS OF OLD WORLD.

15 Doodia, R. BR.

1 media, R. Br. AUSTRALIA AND N. ZEALAND.

16 Drynaria, PRESL,

1 quercifolia. (See *Polypodium quercifolium*.)

17 Gleichenia, SMITH.

1 dichotoma, Willd. TROP. AND SUB-TROP. Cosmopolitan.

18 Goniopteris, PRESL.

1 prolifera.

19 Gymnogramma, DESV.

1 sulphurea. Desv. *Golden Fern.* WEST INDIES.

2 tartarea, Desv. *Silver Fern.* TROP. AMER.
3 calomelanos, Kaulf. TROP. AMER.

20 Hemionitis, L

1 cordata, Roxb. EAST INDIES.

21 Hemitelia, R. BR.
1 Burmiana.

22 Hypolepis, BENTH.
1 species.

23 Lastrea, PRESL.

1 sparsa. (See *Nephrodium sparsum.*)
2 elongata.
3 hirtipes.

24 Lindsæa, DRY.

1 cultrata, Sw. TROP. AND SUB-TROP. ASIA.

25 Lomaria, WILLD.
1 gibba, Lab. N. CALEDONIA.

26 Lygodium, Sw. *Climbing Fern.*
1 scandens, Sw. TROP. &c. OLD WORLD.
2 japonicum, Sw. TROPICS, &c. OLD WORLD.

27 Nephrodium, RICH.

1 cicutarium, Baker. TROPICS. Cosmopolitan.
2 conterminium,
3 cuspidatum,
4 dissectum,
5 giganteum, Baker. TROP. ASIA.
6 polymorphum, BAKER. TROP. ASIA, &c.
7 prolixum, BAKER. TROP. ASIA.
8 remotum.
9 setigerum, Baker. JAPAN AND TROP. ASIA.

10 sparsum, DESV. TROP. ASIA.
11 syrmaticum, Baker. TROP. ASIA.
12 Thelypteris, Desv. N. and S. temp. ZONES.
13 unitum, R. Br. TROP. AND SUB-TROP. regions.
14 molle, Desv. COSMOPOLITAN.
15 propingum.
16 extensum.
17 species. (A monster).

28 Nephrolepis, SCHOTT.
1 tuberosa, Presl.
2 hirsutula, Presl.
3 exaltata, Schott. TROPICS everywhere.
4 acuta, Presl. TROPICS everywhere.
5 „ variety turcans.
6 cordifolia, Baker. TROPICS everywhere.
7 „ var. Duffii.
8 species. (a monster).

29 Niphobolus, KAULF.
1 adnacens.

30 Onychium, KAULF.
1 auratum.
2 japonicum, Kze. JAPAN AND HIMALAYAS.

31 Ophioglossum, L.
1 vulgatum, L. Cosmopolitan.

32 Osmunda, L.
1 regalis, L. *Royal Fern.* N. AND S. TEMP. regions.

33 Pellæa, LINK.
1 falcata, Fée. AUSTRALIA, &c.
2 geraniæfolia, Fée. TROPICS, cosmopolitan.

34 Pleopeltis.
1 nuda.

35 Polybotrya, H. ET. B.

1 auriculata.

36 Polypodium, L.

1 aureum, L. TROP. AMER.
2 liorhizon, Wall. TROP. ASIA.
3 longissimum, Blume. MALAY.
4 phymatodes, L. TROPICS ASIA AND AFRICA.
5 Powellii,
6 quercifolium, L. TROP. ASIA, &c.
7 tissum.
8 nigrocarpum.
9 ornatum.
10 irioides, Lam. TROP. AND SUB-TROP. OLD WORLD.
11 tenericaule.
12 species.

37 Pteris, LINN.

1 serrulata, L. CHINA AND JAPAN.
2 „ var. cristata.
3 tremula, R. Br. AUSTRALIA.
4 tripartita, Sw. TROPICS OF OLD WORLD.
5 ludens.
6 longifolia, L. TROP. AND SUB-TROP. regions.
7 cretica, L. TROP. AND SUB-TROP. regions.
8 „ var. albo-lineata, Hort. TROP. AND SUB-TROP, regions.
9 quadriaurita, Retz. TROPICS everywhere.
10 argyrea, Moore. TROPICS everywhere.
11 tricolor.
12 crenata, Sw. TROP. ASIA, &c. Polynesia.
13 tessellata,
14 species.
15 species.

38 Sagenia, Presl.

1 gigantea.

39 Scolopendrium, Smith.

1 vulgare var. cristata, Sm. M. temp. Zone.

Order CXL.

LYCOPODIACEÆ.

THE CLUB-MOSS FAMILY.

1 Lycopodium, Linn.

1 phlegmaria, Linn. India.
2 species.

2 Selaginella, Spring.

1 lævigata, Baker. Mascaren Islands.
2 uncinata. Spr. China.
3 Kraussiana, A. Br. Cape. G. Hope.
4 viticulosa, Klotz. Trop. Amer.
5 denticulata, Link. Europe.
6 caulescens, Spr. Trop. Asia.
7 inæqualifolia, Spr. Trop. Asia.
8 Wildinovii, Baker. Trop. Asia.
9 flagellifera.
10 amœna.
11 species No. 1.
12 species No. 2.
13 species No. 3.

ADDENDA.

Asparagus sp. NATAL. ○ **Liliaceæ.**
Burchellia capensis, R. BR. C. G. HOPE. ♈ **Rubiaceæ.**
Castilloa elastica. CENTRAL. AMERICA. *American Rubber Tree.* **Urticeæ.**
Cedrela odorata, Linn. WEST INDIES AND CENT. AMER. *West Indian Cedar.* **Meliaceæ.**
Crocosmia aurea, Planch. C. G. HOPE. ♊ **Iridaceæ.**
Dalechampia capensis. NATAL. **Euphorbiaceæ.**
Dioscorea sp. NATAL. ○ **Dioscoreaceæ.**
Dombeya natalensis, SOND. PORT. NATAL. ♋ **Sterculiaceæ.**
Dracæna latifolia. S. AFRICA. ♋ **Liliaceæ.**
Erythrina Caffra. } Received from NATAL.
„ latissima. } **Leguminosæ.**
Gloriosa virescens, Lindl. MOSAMBIQUE. ○ **Liliaceæ.**
Jasminum streptopus. AFRICA. ○ **Oleaceæ.**
Momordica involucrata. NATAL. **Cucurbitaceæ.**
Osmanthus ilicifolius. CHINA. ♋ **Oleaceæ.**
Peddiea africana, Harv. NATAL. **Thymelaceæ.**
Piscidia erythrina, Linn. S. AFRICA. **Leguminosæ.**
Schmidelia melanocarpa. S. AFRICA. **Sapindaceæ.**
Sechium edule, Sw. TROP. AMER. *Chocho.* **Cucurbitaceæ.**
Strobilanthes gossypinus, T. Anders. INDIA. ♋ **Acanthaceæ.**
„ Lawsoniana. ♋ INDIA.
Tephrosia grandiflora. **Leguminosæ.**
Vepris lanceolata. AFRICA. **Rutaceæ**

ALPHABETICAL LIST OF ROSES.

The descriptions are taken, by permission, from the Catalogues of Messrs. W. Paul & Son, the celebrated Rose growers of Waltham Cross.

	A.	
1	Abbé Bramerel, H. P. ...	Reddish-crimson, shaded with dark velvety-purple, large and full; vigorous.
2	Abbe Venier, H. P. ...	Brilliant deep rose colour, moderate size, full and well formed; vigorous.
3	Adanson, H. P.	Bright crimson, shaded with red, of medium size, full and of good form, very perpetual.
4	Adrian Marx,	
5	Aimée Vibert, N. ...	Pure white, full and vigorous.
6	Alba Carnea, H. P. ...	White, slightly tinged with rose, the reverse of the petals white, full, and of fine form; vigorous.
7	Alfred Colomb, H. P. ...	Bright fiery-red, large and full, form globular; one of the best; vigorous.
8	Alfred de Rougemont, H. P. ...	Crimson, and purple shaded, large, full, and vigorous.
9	Alfred K. Williams, H. P. ...	Carmine-red changing to magenta, large, full, and imbricated, one of the best.
10	Aline Sisley, T. ...	Varying from deep rosy purple to shaded violet red, a colour altogether new, and desirable among Tea Roses; large and full.
11	Alphonse Soupert, H. P. ...	Bright rose colour, large and very showy; forces well, a fine new Rose.
12	Amelia Hoste, H. P. ...	Pale pink, reflex of petals darker; large, full and fine, habit erect, foliage handsome.

13	American Beauty, H. P. ...	Rosy-carmine, very large and fragrant; free in blooming and valuable for forcing; closely resembling, if not identical with, *Madame Ferdinand Jamin.*
14	Antoine Ducher, H. P. ...	Bright purplish red, very large, full and of excellent form; one of the best; robust.
15	Antoine Mouton, H. P. ...	Bright clear rose, back of petals silvery, very large, very full and of good form: habit erect, foliage fine; vigorous.
16	Archduke Charles, C. ...	Rose, gradually changing to rich crimson, very large, full and fine.
17	Austrian Copper ...	Coppery-yellow, single.
	B.	
18	Baron Adolphe de Rothschild, H. P. ...	Fiery-red, very large and full; a very effective rose of excellent habit.
19	Baron de Maynard, B. P. ...	Beautiful pure white, medium size, fine form.
20	Baronne de Prailly, H. P. ...	Bright red, shaded, very large, full, form globular.
21	Baronne Prevost H. P. ...	Pale rose, superb, large and full.
22	Beauty of Waltham, H. P. ...	Cherry to bright rosy carmine, large and full; form cupped, very hardy; one of the loveliest and sweetest. vigorous.
23	Belle Lyonnaise, T. ...	Deep canary-yellow, changing to white, slightly tinted with salmon, large, full, of fine form and habit.
24	Bengal ...	
25	Bessie Johnson H. P. ...	Light blush, very large, double, and sweet, of excellent habit, a fine rose.
26	Bernard de Pallisy, H. P. ...	
27	Berthe Baron, H. P. ...	Delicate rose, shaded white, large, and very free.
28	Black Prince, H. P. ...	Dark crimson, shaded black, cupped, large and full, fine shape, very hardy, good habit.

29	Blanche Moreau, M.	... Pure white, large, full, and of perfect form, the buds and flowers produced in clusters, and freely furnished with deep green moss, one of the best.
30	Boule de Neige, H. P.	... Pure white, petals of great substance, medium size, fine form and good habit, hardy and free.
31	Bouquet de Flora	
32	Bouquet d'Or, N.	... Pale yellow, centre coppery, large, full, and of good form.
33	Brennus, H. C.	... Deep carmine, superb, very large and full.
	C.	
34	Cabbage, P.	... Rosy pink, large and full, very sweet.
35	Captain Christy, H. P.	... Delicate flesh colour, deeper in the centre, large; a very effective and new colour, one of the best.
36	Caroline d'Arden, H. P.	... Pure soft rose colour, very large, full, perfectly formed and of most delightful fragrance; petals of great substance, large, round, and very smooth.
37	Caroline de Sansal, H. P.	... Flesh colour, blush edges, cupped.
38	Cashmere.	
39	Catherine Mermet, T.	... Flesh-coloured rose, large, full, and of exquisite form; one of the best.
40	Cecile Berthod, T.	... Fine sulphur yellow, the backs of the petals almost white, very large, full, and striking, flowers abundantly. (See Mdlle. Cecile Berthod.)
41	Celine Forestier, N.	... Pale yellow, free bloomer, large and full.
42	Charles Lamb, H. P.	... Bright red, lovely clear colour, very beautiful in the bud; foliage handsome, habit hardy, free blooming.
43	Charles Lawson, H. C.	... Vivid rose, shaded, large and full, one of the best.
44	Charles Lefebvre, H. P.	... Bright crimson, centre purplish, large, very double and of good form, one of the best.
45	Charles Rouillard, H. P.	... Beautiful pale-rose, brighter at the centre, large, full and of perfect form.

46	Charles Turner, H. P. ...	Bright glossy red, very large, full, of finely cupped form, good habit.
47	Chenedole, H. C. ...	Light vivid crimson, colour exquisite, very large and double, a fine pillar rose.
48	Cheshunt Hybrid, T. ...	Purplish maroon, shaded with crimson, large and full.
49	Christine Nillson, H. P. ...	Bright rose, hardy, and free blooming.
50	Clara Sylvain, C. ...	Pure white. One of the best white China roses.
51	Claude Levet, H. P. ...	Velvety red, large, full, and of fine form, very sweet.
52	Climbing Devoniensis, T. ...	Identical with the old Devoniensis in flower, but of rapid running growth.
53	Cloth of Gold, N. ...	Yellow, edges sulphur, large and very double.
54	Clotilde Roland, H. P. ...	Beautiful pale cherry-rose, large and very full, form of Madame Furtado.
55	Colonel de Rougemont ...	
56	Colonel de Sansal, H. P. ...	Deep even carmine, of medium size, full and round, habit erect.
57	Common China, B. ...	Pale flesh, large and full.
58	Comte de Paris, T. ...	Flesh-coloured rose, superb, large and full.
59	Comte de Sembui, T. ...	Salmon-pink, reverse of petals silvery, large, very full and fine.
60	Comtesse Barbantaune, H. P.	Flesh colour, large, full and of fine form, free and good, one of the best.
61	Comtesse de Chabrilliant, H. P. ...	Pink, beautifully cupped, large and full, very sweet and good.
62	Comtesse de Nadaillac, T. ...	Rosy flesh, base of petals coppery, very distinct and effective, large, full and fine.
63	Comtesse de Serenye, H. P....	Flesh colour, reflexed with rose, inclining to salmon in bud, large, full, free, and fine.
64	Coorg.	
65	Coquette des Alpes, H. P. ...	White, centre shaded with rose, fine form, full, and free.
66	Coquette des Blanches, H. P...	Pure white, globular and large; one of the best of its class.
67	Cornelia Koch, N. ...	Pale straw colour, large, full, and of exquisite globular form, forces well.
68	Countess of Mecklenburg.	

69	Countess of Rosebery, H. P.	Brilliant carmine rose, large and full, of finely cupped form; vigorous.
70	Crimson China.	
71	Crown Prince, H. P. ...	Bright purple, centre shaded with lurid crimson, very large and double, very floriferous; a most effective and free blooming rose.
	D.	
72	De Meaux, M. P. ...	Rosy lilac, very small, full.
73	Deuil de Prince Albert	
74	Devoniensis, No. 1, T. ...	Pale yellow, superb, very large and full.
75	Devoniensis, No. 2.	White, pale blush in centre.
76	Dr. Andry, H. P. ...	Dark bright red, very large, full, and of fine form; one of the best and most effective.
77	Duchess of Bedford ...	Dazzling light scarlet crimson, surpassing in brilliancy any known Rose of its colour, large, full and of perfect globular shape; one of the best.
78	Duchess of Connaught, H. P.	Crimson shaded with purple; large, full, and globular; growth vigorous.
79	Duchess of Edinburgh, H. P.	Pale pink, deepening to bright pink in the centre, large, of perfect form.
80	Duchess of Sutherland, H. P.	Pale rose, large, and very double.
81	Duke of Albany, H. P. ...	Vivid crimson when first opening, changing darker as the flowers expand and developing a beautiful shading of velvety black; very large and full, of grand effect.
82	Duke of Edinburgh, H. P. ...	Brilliant scarlet-crimson, shaded with maroon, large and full; one of the best.
83	Dupuy Jamain, H. P. ...	Brilliant cerise, of fine form and substance, very free bloomer; one of the best.
84	Du Hamel de Monceau.	
	E.	
85	Edward.	Rose, deliciously sweet, affords the best stock for budding upon.
86	Elie Morel, H. P. ...	Rosy lilac, white edges, large and full, distinct and fine.

87	Ella Gordon, H. P. ...	Bright cherry, globular, large and full, petals smooth, thick and well rounded.
88	Emma.	Dark crimson, very hardy.
89	Empress Charlotte.	Rosy-pink.
90	Emperor, H. P. ...	Very dark, almost black, small and neat for button-holes; hardy.
91	Etendard de Jeanne d'Arc, T.	Creamy white, changing to pure white, large and full, very free.
92	Etienne Levet, H. P. ...	Carmine, large, full, and of fine form; one of the best.
93	Etoile de Lyon, T. ...	Fine saffron yellow, brighter in centre; very large, full, and of superb form and habit; a great acquisition.
94	Eugene Beauharnais, H. C....	Amaranth.
95	E. Y. Teas, H. P. ...	Deep cerise-red, large, full, of perfect globular form and very sweet; habit erect.
	F.	
96	Fairy Queen, H. P.	
97	Fisher Holmes, H. P. ...	Magnificent reddish scarlet, shaded with deep velvety crimson, very brilliant, large, full and of good form; one of the best.
98	Florence Paul, H. P. ...	Scarlet-crimson shaded with rose, large, full, and compact; petals recurved, habit good.
99	Francois Lacharme, H. P. ...	Bright carmine changing to red, full, globular.
100	Francois Michelon, H. P. ...	Deep rose, the reverse of the petals silvery, large, full and of globular form; one of the best.
101	Francois Treyve, H. P. ...	Dark shining scarlet, form of Cabbage rose, large, full, and very effective.
	G.	
102	Gabriel Tournier, H. P. ...	Bright deep rose, large and full; a grand Rose both for exhibition and garden decoration.

103	Garden Favourite, H. P. ...	Bright pink, large and full; a fine decorative Rose and a very free bloomer.
104	Geant des Batailles, H. P. ...	Crimson, shaded with purple.
105	General Jacqueminot, H. P.,..	Brilliant red, velvety, large and double, fine for massing.
106	General Fagueminot ...	
107	George Baker, H. P. ...	Lake, shaded with cerise, distinct.
108	Gloire de Dijon, T. ...	Yellow, shaded with salmon, very large and full; a superb Rose; one of the hardiest and best.
109	Gloire de Margottin, H. P....	Dazzling red, one of the most brilliant Roses in existence, large, full, finely formed and globular; one of the best new Roses.
110	Gloire Lyonnaise, H. P. ...	White tinted with yellow, large, full, and of good shape and habit; resembling a tea Rose, and quite distinct.
111	Gloire de Santenay,	
112	Grace Darling, T. ...	Creamy-white, tinted and shaded with peach, distinct, flowers large and full.
113	Grand Mogul, H. P. ...	Deep brilliant crimson, shaded with scarlet and black, flowers large, full, and productive.
114	Grandeur of Cheshunt ...	Light crimson, shaded with rose.
115	Green Rose ...	Green, abnormal.
	H.	
116	Helvetia, T. ...	Pale salmon, very full and vigorous.
117	Her Majesty, H. P. ...	Clear and bright satiny rose, very large and full; petals most symmetrically arranged.
118	Hippolyte Jamain, H. P. ...	Beautiful bright rose shaded with carmine, very large, full, and fine.
119	Homer, T. ...	Rose, centre salmon, variable, large; full and good, very hardy.
120	Hon'ble Edith Giffard, T. ...	Flesh colour, centre salmon-rose, changing to white, large and full.

121	Horace Vernet, H. P. ...	Beautiful velvety purplish red, shaded with dark crimson; very large, full, and effective.
122	Hybrid Pink China, H. C. ...	Dark red, changing to purplish-pink, single.
123	Hybrid Dharwar, H. C. ...	Whitish pink, changing to nearly red; single.
	J.	
124	Jean Ducher, T. ...	Varying from pale lemon to salmon-yellow, centre shaded with peach colour, large, full, and globular.
125	Jean Goujon, H. P. ...	Beautiful clear red, very large, full, and good.
126	Jean Liaband, H. P. ...	Velvety crimson, shaded with black, large, full, and of fine form.
127	Jean Rosenkrantz, H. P. ...	Brilliant coral-red, large, full and of perfect form; one of the best.
128	Jean Pernet, T. ...	Beautiful bright yellow, passing to clear yellow; large and full, one of the best.
129	John Hopper, H. P. ...	Rose, crimson centre, reverse of the petals purplish, lilac, large, full and good.
130	Jules Margottin. ...	Bright cherry, large and full.
	K.	
131	Karl Muller ...	Blackish-velvet amaranth, large and double; vigorous.
	L.	
132	Lady Montgomerie, H. P. ...	
133	Lady of the Lake, H. P. ...	Peach colour, large, full, and of very fine globular form; good and distinct.
134	Lady Sheffield, H. P. ...	Brilliant rosy cerise, becoming lighter as the flowers open; flowers large full and of perfect form.

135	La France, H. P. ...	Beautiful pale peach, rosy centre, very large and full, free bloomer, one of the best.
136	Lamarque, T. ...	Sulphur-yellow, beautiful, very large and full.
137	La Reine, H. P. ...	Rosy pink, tinged lilac; very large and full.
138	Little gem, M. ...	A miniature moss Rose, forming compact bushes; densely covered with small double crimson flowers, beautifully mossed.
139	Lord Bacon, H. P. ...	Deep crimson, illumined with scarlet and shaded with velvety black, large, full, and globular, a very fine and showy rose.
140	Lord Herbert, H. P. ...	Rosy-carmine, the petals reflexing at the summits, large, full, finely formed, and altogether of first-rate excellence.
141	Louise de Savoie, T. ...	Fine pale yellow, large and full.
142	Lyonnaise, H. P. ...	Pink, brighter in the centre, globular.
	M.	
143	Madame Alfred de Rougemont, H. P. ...	White, delicately rose-tinted, large and full, very free.
144	Madame Berard, T. ...	Clear salmon-rose, large, full, and of fine form, one of the best.
145	Madame Bellon, H. P. ...	Delicate rose, large and full, of good habit.
146	Madame Bonnet Eymard, T.	Pure white, sometimes with yellow centre; medium size.
147	Madame (Mrs.) Bosanquet, C.	Flesh colour; large and double.
148	Madame Breon, H. P. ...	Rose colour, tinged with salmon, good.
149	Madame Caroline Kuster, N.	Pale yellow, deeper centre, large, full, and globular.
150	Madame Charles Wood, H. P.	Vinous crimson, very large, full, and effective.
151	Madame Charles Baltet, H. P.	Beautiful clear pale rose, flowers in clusters, perfect form, large and full.
152	Madame Clemence Joigneaux, H. P. ...	Red, shaded with lilac, very large, very double and fine, good habit.

153	Madame Celina Noirey, T. ...	Delicate shaded rose, the backs of the petals purplish-red, very large, full, and of fine habit, one of the best.
154	Madame Devoucout, T. ...	Clear canary yellow, petals edged with white, large and full.
155	Madame Eugene Verdier, H. P. ...	Silvery rose, large, full, and globular, very fine.
156	Madame Falcot, T. ...	Apricot-yellow, in the way of *Safrano*, but of a deeper shade and more double, one of the best.
157	Madame Fillion, H. P. ...	Fine salmon-rose, deeper centre, very lovely, large, full, and finely formed.
158	Madame Georges Schwartz, H. P. ...	Fine Hydrangea rose, changing to glossy rose, very large, full, and of fine form.
159	Madame Guillot d'Montfavet, H. P. ...	Whitish flesh-colour, glossy, large, full, and of globular form, growth erect.
160	Madame Jules Margottin, T.	Delicate pink, tinged with yellow, the centre often deep red, large, full, freely produced and of fine form, very sweet.
161	Madame la Baronne de Rothschild, H. P. ...	Beautiful clear pale rose, shaded with white, very large and double, good habit, one of the best.
162	Madame Lacharme, H. P. ...	White, faintly flushed with rose, changing to pure white, large and full; a beautiful variety in favourable weather.
163	Madame Marie Cirodde, H. P.	Beautiful clear rosy pink, imbricated, large and full, very sweet, one of the best.
164	Madame Masson, H. P. ...	Large red.
165	Madame Montet, H. P. ...	Delicate rose, large petals; almost full, fine for pots and forcing.
166	Madame Plantier, H. C. ...	Pure white, free bloomer, beautiful, full; the finest of all pure white Roses for massing.

187	Marie Van Houtte, T. ...	White, slightly tinged with yellow, the petals often edged with rose, large, full, and of fine form, one of the best.
188	Marquise de Castellane, H. P.	Beautiful bright rose, very large and full, form perfect, blooms freely, one of the best.
189	Maurice Bernardin, H. P. ...	Vermilion, large, full, and of fine form, one of the best.
190	May Turner, H. P, ...	Pale salmon-rose, reverse of petals of a deeper colour, large and full, erect habit, foliage good.
191	Merveille de Lyon, H. P. ...	Pure white. sometimes washed with satin-rose, very large, full, and cupped.
102	Michel Bonnet, H. P. ...	Beautiful rosy peach, large and blooms freely, one of the best.
193	Miss Ingram, H. P. ...	White, blush centre.
194	Monte Christo, H. P. ...	Purple, to crimson.
195	Mrs. Elliott, H. P.	
196	Mrs. John Berners	
197	Mrs. John Laing, H. P. ...	Soft pink, large, finely shaped and exceedingly fragrant; a grand Rose.
198	Mrs. Ward	
	N.	
199	Nardy Freres, H. P. ...	Violet rose, globular, distinct.
200	Nina, T. ...	White delicately tinted with pink, globular.
201	Niphetos, T. ...	Pale lemon, often snowy white, very large and full, one of the best.
	O.	
202	Olivir Delahomme, H. P. ...	Brilliant red, large and perfect shape, foliage handsome, habit good.
	P.	
203	Paul Neyron, H. P. ...	Dark rose, very large, fine form and habit; the largest Rose.

167	Madame Perron. ...	
168	Madame Roland, H. P. ...	
169	Madame Scipion Cochet, T.	Canary yellow, shaded with white and tipped with rose, large and double.
170	Madame Suzanne Chavagnon, H. P. ...	Beautiful bright rose, very large, full, finely formed with stout petals; a very distinct variety.
171	Madame Trifle, T. ...	Salmon yellow, outer petals sometimes deep coppery yellow, large and full.
172	Madame Victor Verdier, H. P.	Rich bright cherry colour, large, full, and of fine form, cupped, superb, a most effective Rose, one of the best.
173	Madame Vidot, H. P. ...	Transparent flesh, shaded rose, large and full.
174	Madame Villermoz, T. ...	White, centre salmon, large and full.
175	Madlle. Bonnaire, H. P. ...	White, rosy centre, large, full, and of exquisite form, one of the best white roses.
176	Madlle. E. Ory, M. ...	Rosy carmine.
177	Madlle. Therese Levet, H. P.	Rose-pink, large, full, distinct and of fine globular form, one of the best.
178	Magna Charta, H. P. ...	Bright pink suffused with carmine, very large, full, and of good form, habit erect, foliage fine.
179	Malmaison Rouge.	
180	Marechal Niel, T. ...	Beautiful deep yellow, large, full, and of globular form, very sweet and truly splendid.
181	Marechal Souchet.	
182	Marie Antoine te.	
183	Marie Baumann, H. P. ...	Bright carmine, very large, smooth and of exquisite form, first-rate.
184	Marie Cordier, H. P. ...	Deep carmine, illuminated with fiery red, large, full, and very effective.
185	Marie Ducher, T. ...	Transparent salmon-rose, large, full, of fine form and good habit.
186	Marie Guillot, T. ...	White, large and handsome, but does not open freely until late in the summer.

204	Paul Ricaut, H. C. ...	Bright rosy-crimson, large and full, one of the best.
205	Perfection de Monplaisir, T.	Beautiful canary-yellow, full, freely produced, fine form.
206	Perle de Lyon, T. ...	Deep yellow, sometimes apricot, large, full and of fine form.
207	Perle des Jardins, T. ...	Straw colour, sometimes canary-yellow, centre orange-yellow, one of the best.
208	Perle d'Or, P. ...	Nankeen yellow, with orange centres, small and full, very beautiful, one of the best.
209	Persian Yellow, A. R. ...	The deepest yellow, large and full, superb.
210	Pierre Notting, H. P. ...	Blackish-red, shaded with violet, very large and full, form globular, habit good, one of the best dark Roses.
211	Pierre Seletzky, H. P. ...	Deep purplish red, shaded with violet, large, showy, very sweet and effective.
212	Pitord, H. P. ...	Fiery red, velvety, fine form, very large and full, very effective.
213	President, T. ...	Rose, shaded with salmon, very large and of good form ; one of the best.
214	President Porcher,	
215	President Thiers, H. P. ...	Fiery red, globular, very large, and full.
216	President Villermoz, H. P.	Bright rose.
217	Pride of Waltham, H. P. ...	Habit of the Countess of Oxford, delicate flesh colour, richly shaded with bright rose, very clear and distinct ; flower very large and full, with petals of great substance.
218	Prince Humbert, H. P. ...	Beautiful bright violet-red, very velvety, form and habit perfect, large and full, blooming in clusters, one of the best.
219	Prince of Wales, H. P. ...	Pale rose, large and globular.
220	Princess Beatrice, H. P. ...	Deep pink, blush margin, large, full, of fine globular form, and great substance, one of the best.
221	Princess Louise Victoria, H. P.	Carmine, shading off to peach, good climbing Rose.
222	Princess of Wales, H. P. ...	Vivid crimson, cupped, large and very double.

	Q.	
223	Queen of Queens, H. P. ...	Pink, with blush edges, large, full, of perfect form and a true perpetual flowering Rose. Decidedly the finest Rose of its colour.
224	Queen of Waltham, H. P. ...	Beautiful rose-cherry, a very distinct and lovely colour, large, full, and of perfect form.
	R.	
225	Red Dragon, H. P. ...	Brilliant crimson, very bright and striking, large, double, and finely cupped, vigorous.
226	Reine du Midi, H. P. ...	Bright rose, very large, double.
227	Reine de Portugal, T. ...	See *Queen of Portugal.* Yellow, shaded with rose and copper.
228	Reve D'Or, N. ...	Deep yellow, sometimes coppery yellow, large and full.
229	Richard Wallace, H. P. ...	Bright red, the petals slightly bordered with white, very large, full, and of fine form.
	S.	
230	Safrano, T. ...	Bright apricot in bud, changing to buff.
231	Sanguinea ...	Crimson, small and very double (*Old crimson China.*)
232	Senateur Vaisse, H. P. ...	Bright red, large and very double, superb.
233	Sombreuil, T. ...	White, tinged with rose, very large and full.
234	Souviner d'Elise Vardon, T.	Creamy-white, centre yellowish, very large and full, a splendid Rose.
235	Souviner de Jules Gounot,	Superb glossy rose, large, finely formed, extra deep rosy-purple.
236	Souviner de Malmaison, B....	Clear flesh, edges blush, beautiful, very large and full, one of the best.
237	Souviner de Mere Fontaine, H. P. ...	Flowers bright red, base of petals shaded with carmine, large full and sweet.
238	Souviner de Mons. Poiteau, H. P. ...	Bright salmon rose, large, full, and of finely cupped form.
239	Souviner de Paul Neyron, T.	Fine salmon-yellow, edged with rose, full and of good form.
240	Souviner de Roman de Pris,	
241	Souviner d'un Ami, T. ...	Salmon and rose, shaded, large and full, one of the best.

242	Souviner de Therese Levet, T.	Bright deep red, shaded, of medium size, full.
243	St. George, H. P. ...	Flowers crimson, shaded black purple, large, full, and good; a splendid Rose.
244	Star of Waltham, H. P. ...	Deep crimson, colour very rich and effective, a magnificent flower of immense size; for form, substance, and smoothness of petal unequalled.
245	Sunset, T. ...	A sport from *Perle des Jardines*. Deep apricot, beautiful in bud and good for forcing.
	T.	
246	The Bride, T. ...	A white sport from *Catherine Mermet*. The flowers are equal in quality to those of the parent rose.
247	The Meteor, T. ...	Rich dark velvety crimson without the least purple tint and retaining its colour well.
248	The Puritan, H. P. ...	Buds white, tinted with yellow, changing to pure white as the flowers expand, very large and full, free blooming.
249	Therese Loth, T. ...	Delicate rose, with brighter centre; medium size.
250	Tournefort,	
	V.	
251	Vicomtesse de Cazes, T. ...	Yellow, centre deep yellow tinted with copper colour, large and very double.
252	Victor le Behan,	Bright rosy carmine.
253	Victor Verdier, H. P. ...	Rosy carmine, purplish edges; large, showy, free growing rose.
254	Victor Verne,	
255	Villaret de Joyense, H. P. ...	Deep rose shaded with carmine, back of petals silvery, large, full, globular and sweet.
	W.	
256	Waltham climber, No. I. ...	Bright crimson, very fine.
257	Wilson Saunders, H. P. ...	Crimson, large and double.
	X	
258	Xavier Olibo, H. P. ...	Velvety black, shaded with amaranth, large and full.

Alphabetical list of the named Crotons in the collection.

A

1 Alexandra.*
2 Amabilis.†
3 Andreanus.*
4 Angustifolium giganteum.*
5 Appendiculatus.†
6 Aucubæfolium.*
7 Aureum.*
8 Australian Longifolium.*

B

9 Baptistii.*
10 Baron Frank Selliere.*
11 Baron James De Rothschild.*
12 Barton Westii.*
13 Beauty.

C

14 Camptophyllum.†
15 Challenger (Imperator.)*
16 Chelsoni.†
17 Concinnus.*
18 Contortus.†
19 Cooperii No. 1.*
20 „ No. 2.*
21 Cornutum.†

D

22 Day Spring.*
23 Dormanianus.*
24 Duchess of Edinburgh.†
25 Duke of Connaught.
26 Duke of Edinburgh.†

E

27 Elegans.
28 Elegantissimum.†
29 Evanseana.*
30 Excelsior.*

F

31 Foxii No. 1.†
32 „ No. 2.
33 Furcatus.†

G

34 Gladstonei.*
35 Gloriosus* (see Princess of Wales.)
36 Goldiana.†
37 Grande.*
38 Grotesque.†

H

39 Hawkerii.*
40 Hendersonii.*
41 Henryeanus.*
42 Hillianus.†
43 Hookerii.†
44 Hybridum.

I

45 Illustris.†
46 Imperial Hector.
47 Imperialis.†
48 Insignis.
49 Interruptum.†
50 Irregulare.*

J

51 Jamesii.†
52 Johannis.†

K

53 Kingianus.*

L

54 Lady Zetland.†
55 Lancifolium.
56 Limbatum.†
57 Lineare.
58 Longifolium.†
59 Lord Ripon.*
60 Lowii (Handburyanus).*

M

61 Macarthuri Nos. 2, 11, 37, 56 & 85.
62 Macfarlanei.
63 Macfeanus.*
64 Maculata.†
65 Magnolifolius.*
66 Maharajah of Durbunga.*
67 Majesticum.†
68 Maxima.*
69 Metallicum.
70 Mirabilis.*
71 Mooreanus.*
72 Morti.*
73 Multicolor.*
74 Mutabilis (Princeps.)†

N

75 Nestor.
76 New Guinea.*
77 Nobilis.

O

78 Oblongifolium.
79 Ovalifolius.†

P

80 Paradoxus.
81 Pictum, Hort.†
82 Picturatus.†
83 Prince Albert Victor.
84 Prince of Wales.*
85 Princess of Wales.*

Q

86 Queen Victoria.*

R

87 Regina.
88 Recurvifolius No. 1.*
89 „ No. 2.*
90 Rex.
91 Rosea picta.†
92 Rotundifolia.*

S

93 Schomburgkiana (Guilfoyle).*
94 Sir Ashly Eden.*
95 Spiralis.†
96 Splendidus.
97 Sunrise.
98 Sunset.*

T

99 Torquatus.†
100 Trilobus, Albertii.*
101 „ Disraelii.*
102 „ Earl of Derby.*
103 „ Lord Cairns.*
104 Triumphans.*
105 Truffantianus.*

U

106 Undulatum. Veitch.†

V

107 Variabilis.†
108 Variegatum.†
109 Veitchianum.†
110 Veitchii.*
111 Vittatus.*
112 Volutum.†
113 Volutus Splendens.†

W

114 Warrenii.*
115 Washingtonii.
116 Weismanii.†

W	Y
117 White shade.	120 Youngii No. 1.*
118 Williamsii.*	121 " No. 2.*
119 Wilsonii.	122 " No. 3.*

* Varieties having very fine leaves, and usually requiring same protection from the sun and wind.

† Plants with smaller leaves. As a class these require less protection from sun and wind than the larger leaved varieties. But nearly all Crotons relish a little shade.

INDEX OF ORDERS AND GENERA.

A.

	Page.
Abies ...	181
Abroma ...	25
Abrus ...	50
Abutilon ...	20
Acacia ...	62
Acalypha ...	169
Acanthaceæ ...	137
Acanthus ...	140
Achillea ...	98
Achimenes ...	134
Achras ...	107
Achyranthus ...	155
Acorus ...	213
Acrocarpus ...	62
Acrostichum ...	230
Actinopteris ...	230
Adansonia ...	23
Adenanthera ...	61
Adenostemma ...	94
Adenum ...	114
Adhatoda ...	142
Adiantum ...	230
Adina ...	88
Æchmea ...	199
Ægle ...	34
Æginetia ...	132
Æschynanthus ...	133
Æschynomene ...	49
Ærides ...	189
Ærua ...	155
Agapanthus ...	203
Agave ...	198
Ageratum ...	94
Aglaonema ...	213
Ailantus ...	34
Alangium ...	87
Albizzia ...	63
Aleurites ...	168
Allamanda ...	113
Alismaceæ ...	211
Allium ...	204
Allophylus ...	42
Alocasia ...	213
Aloe ...	205
Aloysia ...	146
Allmania ...	153
Alpinia ...	192
Alseodaphne ...	162
Alsophila ...	231
Alstonia ...	112
Alternanthera ..	155
Althea ...	19
Alysicarpus ...	49
Amarantaceæ	152
Amarantus ...	153
Amaryllideæ	196
Amaryllis ...	197
Amherstia ...	59
Ammannia ...	73
Amomum ...	193
Amorphophallus ...	214
Ampelideæ ...	40
Ampelopsis ...	41
Amphilophium ...	136
Anacardiaceæ	43
Anacardium ...	43
Anagallis ...	105
Anamirta ...	5
Ananassa ...	200
Anaphalis ...	96
Anatherium ...	225
Anchusa ...	121
Anda ...	170
Andrographis ...	141
Andropogon ...	223
Aneilema ...	207
Anemia ...	231
Angelonia ...	131

	Page.
Angiopteris ...	231
Angræcum ...	191
Anisochilus ...	148
Anisomeles ...	150
Anogeissus ...	69
Anona ...	4
Anonaceæ ...	3
Anthericum ...	203
Anthisteria ...	228
Anthocephalus ...	88
Antholyza ...	196
Anthriscus ...	85
Anthurium ...	214
Antidesma ...	167
Antigonon ...	159
Antirrhinum ...	129
Aphelandra ...	143
Apium ...	84
Apluda ...	224
Apocynaceæ ...	110
Aquilegia ...	2
Arachis ...	50
Aralia ...	86
Araliaceæ ...	85
Araucaria ...	181
Ardisia ...	106
Areca ...	208
Arenga ...	208
Argemone ...	7
Argyranthemum ...	101
Argyreia ...	123
Arisæma ...	214
Aristida ...	225
Aristolochia ...	160
Aristolochiaceæ	159
Arracacia ...	85
Artabotrys ...	4
Aroideæ ...	212
Artemisia ...	98
Artocarpus ...	176
Arum ...	214
Arundinaria ...	229
Arundinella ...	228
Arundina ...	188
Asclepiadaceæ	114
Asclepias ...	115
Asparagus ...	238, 204
Aspidistra ...	204
Aspidium ...	232
Aspidopterys ...	28
Asplenium ...	232
Aster ...	95
Asystasia ...	140
Atalantia ...	33
Athyrium ...	232
Atriplex ...	156
Atylosia ...	53
Avena ...	229
Averrhoa ...	31
Azima ...	110

B.

	Page.
Balanites ...	34
Baloghia ...	170
Balsamineæ ...	30
Balsamodendron ...	35
Bambusa ...	229
Banisteria ...	28
Barleria ...	140
Barringtonia ...	71
Basella ...	157
Bassia ...	107
Batratherum ...	226
Bauhinia ...	59
Beaumontia ...	113
Beesha ...	229
Begonia ...	80
Begoniaceæ ...	80
Bellis ...	101
Benincasa ...	78
Benthamia ...	87
Berberideæ ...	5
Berberis ...	5
Berrya ...	26
Beta ...	156
Bidens ...	98
Bignonia ...	135
Bignoniaceæ ...	134
Billardiera ...	13
Billbergia ...	200
Biophytum ...	30
Bixa ...	11
Bixineæ ...	11

	Page.
Blainvillea ...	97
Blechnum ...	232
Blepharis ...	139
Bletia ...	191
Blumea ...	95
Blyxa ...	183
Bœhmeria ..	177
Bœrhaavia ...	152
Bombax ...	23
Boragineæ ...	120
Borago ...	122
Borassus ...	208
Boswellia ...	35
Boucerosia ...	117
Bougainvillea ...	152
Brachycome ...	95
Brachystelma ...	116
Brassaia ...	86
Brassica ...	8
Breynia ...	167
Bridelia ...	166
Briza ...	229
Bromelia ...	200
Bromeliaceæ ...	199
Broussonetia ...	173
Browallia ...	131
Brownea ...	56
Brugmansia ...	128
Brunfelsia ...	132
Bryonia ...	79
Bryophyllum ...	66
Buchanania ...	43
Buddleia ...	117
Bulbophyllum ...	187
Burchellia ...	238
Bursaria ...	13
Bursera ...	36
Burseraceæ ...	35
Butea ...	51
Buxus ...	166

C.

	Page.
Cacalia ...	101
Cacteæ ...	81
Cadaba ...	10
Cæsalpinia ...	56
Cæsalpinieæ ...	56
Cajanus ...	53
Caladium ...	215
Calamus ...	210
Calandrinia ...	15
Calanthe ...	188
Calceolaria ...	131
Calendula ...	99
Calla ...	213
Callicarpa ...	144
Calliopsis ...	101
Callistemon ...	70
Callistephus ...	95
Calodendrum ...	34
Calophanes ...	139
Calophyllum ...	17
Calotropis ..	115
Camellia ...	17
Campanula ...	104
Campanulaceæ	103
Canavalia ...	52
Candollea ...	2
Canna ...	194
Cannibis ...	172
Canscora ...	119
Canthium ...	90
Capparideæ ...	9
Capparis ...	10
Caprifoliaceæ...	87
Capsella ...	9
Capsicum ...	127
Caralluma ...	117
Cardamine ...	8
Cardiospermum ...	42
Careya ...	71
Carica ...	77
Carissa ...	111
Carthamus ...	99
Carum ...	84
Caryophylleæ...	13
Caryota ...	208
Cassia ...	58
Castanospermum ...	56
Castillea ...	238
Casuarina ...	178
Casuarineæ ...	177
Catalpa ...	136

	Page.
Catesbæa ...	92
Cedrela ...	238, 37
Celastrineæ ...	38
Celastrus ...	39
Celosia ...	153
Celsia ...	129
Celtis ...	172
Centaurea ...	99
Centratherum ...	93
Cephalandra ..	79
Cephalostigma ...	103
Cerastium ...	14
Ceratonia ...	60
Ceratophylleæ	179
Ceratophyllum ...	179
Cerbera ...	111
Cereus ...	82
Ceropegia ...	116
Ceropteris ...	233
Chamæraphis ...	228
Chamærops ...	208
Cheilanthes ...	233
Cheiranthus ...	8
Chenopodiaceæ	156
Chenopodium ...	156
Chickrassia ...	37
Chloris ...	225
Chloroxylon ...	37
Chrozophora ...	169
Chrysanthemum ...	98
Chrysophyllum ...	107
Chrysopogon ...	224
Cicca ...	167
Cicer ...	50
Cichorium ...	100
Cinchona ...	91
Cineraria ...	102
Cinnamomum ...	162
Cipadessa ...	37
Citharexylum ...	146
Citrus ...	33
Citrullus ...	78
Clarkia ..	75
Clausena ...	33
Clematis ...	1
Cleome ...	9
Clerodendron ...	145
Clianthus ...	55
Clitoria ...	52
Clusia ...	17
Cobæa ...	119
Coccoloba ...	159
Cocculus ...	5
Cochlospermum ...	11
Cocos ...	209
Codiæum ...	169
Cœlogyne ...	188
Coffea ...	91
Coix ...	224
Cola ...	24
Coldenia ...	121
Coleus ...	148
Collinsia ...	131
Colubrina ...	40
Colvillea ...	60
Combretaceæ...	68
Combretum ...	69
Commelyna ...	207
Commelynaceæ	206
Compositæ ...	93
Convolvulaceæ	122
Convolvulus ...	124
Conyza ...	95
Corchorus ...	27
Coniferæ ...	180
Cordia ...	120
Coriandrum ...	85
Cornaceæ ...	87
Cornus ...	87
Coronopus ...	8
Corypha ...	209
Cosmos ...	101
Costus ...	192
Cotula ...	98
Cotyledon ...	67
Couroupita ...	71
Courtoisia ...	220
Crassulaceæ ...	66
Cratæva ...	10
Crescentia ...	137
Crescentiaceæ	137
Crinum ...	197

	Page.
Crocosmia ...	238
Crossandra ...	140
Crotalaria ...	46
Croton ...	168
Cruciferæ ...	7
Cryptolepis ...	114
Cryptomeria ...	182
Cryptostegia ...	114
Cucumis ...	78
Cucurbita ...	79
Cucurbitaceæ	77
Cuminum ...	85
Cuphea ...	74
Cupressus ...	180
Cupuliferæ ...	178
Curculigo ...	198
Curmeria ...	217
Curcuma ...	193
Cuscuta ...	125
Cyamopsis ...	47
Cyanotis ...	206
Cycadaceæ ...	182
Cycas ...	182
Cyclamen ...	105
Cylista ...	53
Cymbidium ...	189
Cymbopogon ...	224
Cynanchum ...	115
Cynara ...	102
Cynodon ...	225
Cynoglossum ...	122
Cyperaceæ ...	218
Cyperus ...	219
Cyphomandra ...	126
Cypripedium ...	190
Cyrtandreæ ...	133
Cyrtanthera ...	143
Cyrtanthus ...	198
Cyrtomium ...	233
Cyrtopera ...	189
D.	
Dactylis ...	229
Dactyloctenium ...	226
Dædalacanthus ...	139
Dæmia ...	115
Dahlia ...	102
Dalbergia ...	54
Dalechampia ...	238, 170
Dammara ...	181
Datura ...	127
Daucus ...	85
Davallia ...	233
Debregeasia ...	177
Decaschistia ...	21
Deeringia ...	153
Delima ...	2
Delphinium ...	2
Dendrobium ...	184
Dendrocalamus ...	229
Derris ...	55
Desmanthus ...	61
Desmodium ...	49
Dianthus ...	14
Dichrocephala ...	94
Dichrostachys ...	61
Dicliptera ...	142
Dicoma ...	100
Dictyosperma ..	210
Dieffenbachia ...	216
Digera ...	153
Dilleniaceæ ...	2
Dillenia ...	2
Dioscorea ...	238, 201
Dioscoreaceæ	200
Diospyros ...	108
Dipladenia ...	113
Dipsaceæ ...	92
Dipsacus ...	92
Dipterocarpeæ	18
Dodonæa ...	42
Dolichandrone ...	136
Dolichos ...	53
Dombeya ...	238, 25
Doodia ...	233
Dorstenia ...	173
Doryanthes ...	198
Dracæna ...	238, 205
Drosera ...	67
Droseraceæ ...	67
Drynaria ...	233
Duranta ...	146

	Page.
Durio ...	23
Dypsis ...	211
Dysophylla ...	148
E.	
Ebenaceæ ...	107
Echolium ...	142
Echeveria ...	67
Echinocactus ...	82
Echinops ...	99
Echites ...	113
Eclipta ...	97
Ehretia ...	121
Elæagnaceæ ...	164
Elæagnus ...	164
Elæis ...	210
Elæocarpus ...	27
Elæodendron ...	39
Eleiotis ...	49
Elephantopus ...	94
Elettaria ...	193
Eleusine ...	228
Elytrophorus ...	228
Embelia ...	106
Emex ...	158
Emilia ...	99
Encephalartus ...	182
Epiphyllum ...	82
Eragrostis ...	227
Eranthemum ...	140
Eria ...	187
Erigeron ...	95
Eriobotrya ...	65
Eriocaulon ...	218
Eriocauloneæ	218
Eriodendron ...	23
Eriolæna ...	24
Ervum ...	50
Erycibe ...	122
Erysimum ...	8
Erythræa ...	118
Erythrina ...	238, 51
Erythroxylon ...	27
Eucalyptus ...	70
Eucharis ...	198
Euchlæna ...	221
Eugenia ...	71
Eugesnereæ ...	134
Eulophia ...	189
Euonymus ...	59
Eupatorium ...	94
Euphorbia ...	166
Euphorbiaceæ	165
Eustrephus ...	206
Evolvulus ...	125
Exacum ...	118
Excœcaria ...	170
Exogonium ...	125
F.	
Fagopyrum ...	158
Fagræa ...	118
Farfugium ...	100
Feronia ...	34
Ficoideæ ...	82
Ficus ...	173
Filago ...	96
Filices ...	230
Filicium ...	36
Fittonia ...	143
Flacourtia ...	12
Flauria ...	100
Flemingia ...	54
Fleurya ...	176
Flueggia ...	167
Fœniculum ...	84
Fourcroya (see Furcræa)	199
Fragaria ...	64
Francisccea ...	132
Frenela ...	181
Fuchsia ...	75
Fumaria ...	7
Fumariaceæ ...	7
G.	
Gaillardia ...	101
Galactia ...	51
Garcinia ...	16
Gardenia ...	89

	Page.
Garuga ...	35
Gauzuma ...	25
Gazania ...	101
Gelonium ...	170
Genista ...	45
Gentianaceæ ...	118
Geraniaceæ ...	29
Gesnera ...	134
Gesneraceæ ...	133
Girardinia ...	176
Givotia ...	169
Gladiolus ...	196
Gleditschia ...	57
Gleichenia ...	233
Glochidion ...	167
Gloriosa ...	238, 203
Gloxinia ...	134
Glycine ...	51
Glycosmis ...	32
Gmelina ...	145
Gnaphalium ...	96
Godetia ...	75
Goldfussia ...	139
Gomphocarpus ...	117
Gomphostemma ...	151
Gomphrena ...	155
Goniopteris ...	233
Goodia ...	55
Gossypium ...	22
Gramineæ ...	220
Grangea ...	94
Graptophyllum ...	142
Grevillea ...	163
Grewia ...	26
Guaiacum ...	29
Guizotia ...	97
Guttiferæ ...	16
Gymnema ...	115
Gymnogramma ...	233
Gymnosporia ...	39
Gymnostachyum ...	141
Gymnothrix ...	228
Gynandropsis ...	10
Gynocardia ...	12
Gynura ...	98

H.

	Page.
Habenaria ...	190
Habrothamnus ...	128
Hæmanthus ...	198
Hæmatoxylon ...	60
Hakea ...	163
Halorageæ ..	68
Hamelia ...	91
Hardwickia ...	59
Hedera ...	86
Hedychium ...	192
Hedyotis ...	89
Hedysarum ...	48
Heimia ...	74
Helenium ...	101
Heleochloa ...	229
Helianthus ..	102
Helichrysum ...	96
Helicia ...	163
Heliconia ...	195
Helicteres ...	24
Heliotropium ...	121
Hemarthria ...	228
Hemerocallis ...	197
Hemidesmus ...	114
Hemigraphis ...	139
Hemionites ...	234
Hemitelia ...	234
Heptapleurum ...	86
Heracleum ...	85
Heritiera ...	24
Hernandia ...	162
Herpestis ...	129
Heterophragma ...	136
Heteropogon ...	228
Heterotrichum ...	72
Hevea ...	171
Hewittia ...	124
Heylandia ...	46
Hibiscus ...	21
Hiptage ...	28
Hoffmania ...	92
Holarrhena ...	112
Holmskioldia ...	146
Hopea ...	18

	Page.
Hoppea ...	118
Hoya ...	116
Humboldtia ...	59
Humulus ...	172
Hura ...	170
Hydnocarpus ...	12
Hydrangea ...	66
Hydrilla ...	183
Hydrocera ...	31
Hydrocharideæ	183
Hydrocotyle ...	84
Hydrolea ...	120
Hydrophyllaceæ	119
Hygrophila ...	138
Hymenæa ...	59
Hymenosporum ...	13
Hyophorbe ...	210
Hyoscyamus ...	128
Hypericineæ ...	16
Hypericum ...	16
Hypolepis ...	234
Hyssopus ...	149
I.	
Iberis ...	9
Ichnocarpus ...	113
Ilex ...	38
Ilicineæ ...	38
Ilysanthes ..	130
Impatiens ...	31
Imperata ...	228
Indigofera ...	47
Ionidium ...	11
Ipomæa ...	123
Iresine ...	155
Iridaceæ ...	195
Iris ...	196
Isachne ...	225
Isolepis ...	220
Ixora ...	90
J.	
Jacquemontia ...	125
Jacquinia ...	106
Jasminum ...	238, 109
Jatropha ...	168
Juniperus ...	181
Jussiæa ...	75
Justicia ...	141
K.	
Kæmpferia ...	192
Kalanchoe ...	66
Kentia ...	210
Kigelia ...	137
Kleinhovia ...	24
Klugia ...	134
Knoxia ...	90
Kopsia ..	111
Kydia ...	23
Kyllingia ...	220
L.	
Labiatæ ...	146
Lactuca ...	100
Lafœnsia ..	74
Lagarosiphon ...	183
Lagascea ...	97
Lagenaria ...	77
Lagerstrœmia ...	74
Laggera ...	95
Lagunaria ...	23
Landolphia ...	113
Lantana ...	143
Lapageria ...	202
Lappago ...	225
Lastrea ...	234
Lathyrus ...	50
Lauraceæ ...	161
Lavatera ...	19
Lavandula ...	148
Lawsonia ...	73
Leea ...	41
Leersia ...	227
Leguminosæ ...	45
Lemna ...	217
Leonorus ...	150
Leonotis ...	150

	Page.
Lepidagathis ...	141
Lepidium ...	9
Leptadenia ...	116
Leptochloa ...	226
Lettsomia ...	123
Leucas ...	150
Leucæna ...	61
Licuala ...	210
Ligustrum ...	110
Liliaceæ ...	202
Lilium ...	202
Limnanthemum ...	119
Limnophyla ...	129
Limonia ...	33
Linaria ...	129
Lindsæa ...	234
Lineæ ...	27
Linum ...	27
Lentibulariaceæ	133
Lippia ...	144
Litsæa ...	162
Livistona ...	210
Lagascea ...	97
Lobelia ...	103
Loganiaceæ ...	117
Lolium ...	229
Lomaria ...	234
Lonicera ...	88
Lophospermum ...	131
Loranthaceæ...	164
Loranthus ...	164
Lourea ...	49
Louchocarpus ...	60
Ludwigia ..	75
Luffa ...	78
Lupinus ...	47
Lychnis ...	14
Lycopersicum ...	127
Lycopodiaceæ	237
Lycopodium ...	237
Lygodium ...	234
Lythraceæ ...	73
M.	
Macadamia ...	163
Machilus ...	162
Macrozamia ...	182
Mæsa ...	106
Magnoliaceæ	3
Magnolia ...	3
Malachra ...	20
Malcolmia ...	8
Mallotus ...	169
Malpighia ...	28
Malpighiaceæ	28
Malva ...	19
Malvaceæ ...	18
Malvastrum ...	19
Manettia ...	92
Mangifera ...	43
Manihot ...	168
Manisurus ...	226
Maranta ...	193
Marantaceæ ...	193
Marrubium ...	150
Martynia ...	137
Matthiola ...	7
Maurandia ...	130
Medicago ...	47
Melaleuca ...	70
Melastoma ...	72
Melastomaceæ	72
Melhania ...	25
Melia ...	36
Meliaceæ ...	36
Melianthus ...	29
Melissa ...	149
Melo-cactus ...	82
Melochia ...	25
Memecyleæ ...	72
Memecylon ...	73
Menispermaceæ	4
Mentha ...	149
Mesembryanthemum	83
Mesua ...	17
Meyenia ...	143
Mezoneurum ...	57
Michelia ...	3
Microchloa ...	225
Miliusa ...	4
Millingtonia ...	135

	Page.
Mimosa ...	61
Mimoseæ ...	61
Mimulus ...	129
Mimusops ...	107
Mirabilis ...	152
Mitrasacme ...	117
Modecca ...	77
Mollugo ...	83
Momordica ...	238, 78
Monochoria ...	206
Morinda ...	91
Moringa ...	44
Moringeæ ...	44
Morus ...	173
Mucuna ...	51
Mukia ...	79
Mundulea ...	48
Murraya ...	32
Musa ...	194
Mussænda ...	89
Myosotis ...	121
Myristica ...	161
Myristiceæ ...	161
Myrospermum ...	55
Myrsineæ ...	106
Myrtaceæ ..	69
Myrtus ...	71
Myxopyrum ...	110

N.

Nandina ...	5
Naravelia ...	1
Naregamia ...	36
Nasturtium ...	8
Nauclea ...	89
Nelsonia ...	138
Nelumbium ...	6
Nemophila ...	120
Nepenthaceæ	159
Nephelium ...	42
Nephrodium ...	234
Nephrolepis ...	235
Neptunia ...	61
Nerine ...	197
Nerium ...	112
Nicandra ...	127
Nicotiana ...	128
Nigella ...	2
Niphobolus ...	235
Noronhia ...	110
Notonia ...	99
Nyctagineæ ...	151
Nyctanthes ...	110
Nymphæa ...	6
Nymphæaceæ	5

O.

Ochna ...	35
Ochnaceæ ...	35
Ochrocarpus ...	17
Ocymum ...	147
Odina ...	43
Œnothera ...	75
Olacineæ ...	37
Olax ...	38
Oldenlandia ...	89
Olea ...	110
Oleaceæ ...	108
Onagraceæ ...	74
Oncidium ...	191
Onychium ...	235
Ophioglossum ...	235
Opilia ..	38
Oplismenus ...	226
Opuntia ...	81
Orchideæ ...	183
Oreodoxa ...	210
Origanum ...	149
Ormocarpum ...	49
Ornithogalum ...	204
Orobanchaceæ	132
Orobanche ...	132
Orthosiphon ...	147
Orygia ...	83
Oroxylum ...	135
Oryza ...	221
Osbeckia ...	72
Osmanthus ...	238
Osmunda ..	235
Ottelia ...	183

	Page.
Oxalideæ ...	30
Oxalis ...	30
Oxystelma ...	115
P	
Palmaceæ ...	207
Panax ...	86
Pancratium ...	197
Pandanaceæ ...	211
Pandanus ...	211
Panicum ...	222
Papaveraceæ	6
Papaver ...	6
Papayaceæ ...	77
Pardanthus ...	196
Paritium ...	22
Parkia ...	61
Parkinsonia ...	57
Paspalum ...	221
Passiflora ...	76
Passifloreæ ...	76
Pastinaca ...	85
Paullinia ...	42
Paulownia ...	131
Pavetta ...	90
Pavonia ...	20
Pedaliaceæ ...	137
Pedalium ...	137
Peddiea ...	238
Pedilanthus ...	172
Pelargonium ...	30
Pellæa ...	235
Peltophorum ...	57
Penicillaria ..	223
Penstemon ...	131
Pentapetes ...	25
Pentas ...	91
Peperomia ...	161
Pereskia ...	82
Pergularia ...	116
Perilla ...	149
Peristrophe ...	142
Perotis ...	227
Persea ...	162
Petræa ...	146
Petunia ...	128
Peucedanum ...	85
Phajus ...	188
Phalænopsis ...	189
Phaseolus ...	52
Phaylopsis ...	139
Philesiaceæ ...	202
Philodendron ...	216
Phlox ...	119
Phœnix ...	209
Pholidota ...	188
Phormium ...	205
Phyllanthus ...	166
Physalis ...	127
Phytolaccaceæ	157
Pilea ...	176
Pimpinella ..	84
Pinus ...	181
Piper ...	160
Piperaceæ ...	160
Piscidia ...	238
Pisonia ...	152
Pistacia ...	43
Pistia ...	217
Pisum ...	50
Pitcairnia ...	200
Pithecolobium ...	63
Pittosporeæ ...	12
Pittosporum ...	12
Plantagineæ ...	151
Plantago ...	151
Platanaceæ ...	177
Platanus ...	177
Plectranthus ...	148
Pleopeltis ...	235
Pluchea ...	96
Plumbaginaceæ	104
Plumbago ...	105
Plumieria ...	111
Podocarpus ...	181
Pœciloneuron ...	17
Pogonia ...	190
Pogostemon ...	148
Poinciana ...	57
Poinsettia ...	170
Poivrea ...	69

	Page
[illegible]	[illegible]
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[illegible]	54
[illegible]	57
[illegible]	24
[illegible]	74
[illegible]	1[illegible]4
Putranjiva	167
Pyrethrum	162
Pyrus	65

Q

Quassia	34

	Page
[illegible]	[illegible]
[illegible]	[illegible]

R

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[illegible]	[illegible]
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[illegible]	[illegible]
[illegible]	123
[illegible]	[illegible]
[illegible]	56
[illegible]	[illegible]
[illegible]	64
[illegible]	65
[illegible]	151
[illegible]	45
[illegible]	113
[illegible]	91
Rubiaceæ	[illegible]
Rubus	64
Ruellia	139
Rumex	158
Rungia	142
Russelia	131
Ruta	33
Rutaceæ	33

S.

Sabal	209

	Page.
Saccharum ...	223
Saccolabium ...	190
Saccopetalum ...	4
Sagenia ...	237
Sagittaria ...	211
Salicaceæ ...	179
Salix ...	179
Salvadoraceæ	110
Salvia ...	149
Sanchezia ...	132
Sanseviera ...	204
Santalaceæ ...	165
Santalum ...	165
Sanvitalia ...	102
Sapindaceæ ...	41
Sapindus ...	42
Sapium ...	170
Saponaria ...	14
Sapotaceæ ...	106
Saraca ...	59
Sarcocephalus ...	88
Sarcostemma ...	115
Saxifraga ...	66
Saxifragaceæ	65
Scabiosa ...	92
Schmidelia ...	238
Schinus ...	44
Scitamineæ ...	191
Scirpus ...	220
Scolopendrium ...	237
Scrophularineæ	128
Scutia ...	40
Seaforthia ...	209
Secamone ...	115
Sechium ...	238
Sedum ...	67
Selaginella ...	237
Semecarpus ...	44
Senecio ...	99
Sesamum ...	137
Sesbania ...	48
Setaria ...	223
Shorea ...	18
Sida ...	19
Sideroxylon ...	107
Siegesbeckia ...	97
Silene ...	14
Simarubeæ ...	34
Smilaceæ ...	201
Smilax ...	201
Solanaceæ ...	125
Solanum ...	126
Solidago ...	94
Sollya ...	13
Sonchus ...	100
Sonerila ...	72
Sophora ...	55
Sopubia ...	130
Sorghum ...	224
Soymida ...	37
Spathodea ...	136
Spermacoce ...	91
Sphæranthus ...	96
Sphenoclea ...	104
Spilanthus ...	97
Spinacia ...	156
Spiræa ...	64
Spondias ...	44
Spodispogon ...	228
Sporobolus ...	226
Stachys ...	150
Stachytarpheta ...	144
Stellaria ...	14
Stephanotis ...	116
Stephegyne ...	88
Sterculia ...	24
Sterculiaceæ ...	23
Stereospermum ...	136
Stigmatophyllum ...	28
Streblus ...	172
Strelitzia ...	195
Streptocarpus ...	134
Striga ...	130
Strobilanthes ...	238, 139
Strychnos ...	118
Stylosanthes ...	49
Swainsonia ...	55
Swietenia ...	37
Symphytum ...	122
Synadenium ...	171
Syngonium ...	217

	Page.
T.	
Tabernæmontana ...	112
Tacsonia ...	76
Tagetes ...	101
Tamarindus ...	59
Tamariscineæ	15
Tamarix ...	15
Taraxacum ...	100
Tecoma ...	135
Tectona ...	144
Templetonia ...	55
Tephrosia ...	238, 48
Teramnus ...	51
Terminalia ...	68
Ternstrœmiaceæ	17
Tetragonia ...	83
Thalictrum ...	1
Theobroma ..	25
Thespesia ...	22
Thevetia ...	113
Thrinax ...	210
Thuja ...	182
Thunbergia ...	138
Thymus ...	149
Tigridia ...	196
Tiliaceæ ...	26
Tillæa ...	66
Tillandsia ...	200
Timbristylis ...	219
Tinospora ...	5
Toddalia ...	32
Torenia ...	130
Trachelium ...	104
Trachys ...	226
Tradescantia ...	207
Tragia ...	170
Trapa ...	76
Trema ...	172
Trewia ...	169
Trianthema ...	83
Tribulus ...	29
Trichodesma ...	121
Tricholepis ...	99
Trichosanthes ...	77
Trifolium ...	46
Trigonella ...	47
Triphasia ...	33
Tristania ...	70
Triticum ...	221
Triumfetta ...	26
Tropæolaceæ.	30
Tropæolum ...	31
Tuirena ...	220
Tulipa ...	203
Tylophora ...	116
Typha ...	212
Typhaceæ ...	212
U.	
Umbelliferæ ...	83
Uraria ...	49
Urena ...	20
Urtica ...	176
Urticeæ ...	171
Utricularia ...	133
Uvaria ...	3
V.	
Vahlia ...	66
Vallaris ...	112
Vallisneria ...	183
Vanda ...	189
Vandellia ...	130
Vangueria ...	90
Vanilla ...	190
Vateria ...	18
Ventilago ...	39
Vepris ...	238
Verbascum ...	129
Verbena ...	144
Verbenaceæ ...	143
Verbesina ...	102
Vernonia ...	94
Veronica ...	130
Vicia ...	50
Vicoa ...	96
Victoria ...	6
Vigna ...	52

	Page.
Viminaria ...	55
Vinca ...	111
Viola ...	11
Violaceæ ...	11
Virgilia ...	55
Vitex ...	145
Vitis ...	40
Vittadenia ...	102
W.	
Wagatea ...	57
Wahlenbergia ...	104
Wallichia ...	211
Walsura ...	27
Waltheria ...	25
Webera ...	89
Wedelia ...	97
Wellingtonia ...	182
Wendlandia ..	89
Wigandia ...	120
Withania ...	127
Wrightia ...	112
X.	
Xanthium ...	97
Ximenia ...	38
Xylophylla ...	171
Y.	
Yucca ...	205
Z.	
Zanonia ..	79
Zanthonylum ...	32
Zea ...	221
Zehneria ...	79
Zephyranthes ...	198
Zingiber ...	192
Zingiberaceæ ...	192
Zinnia ...	100
Zizyphus ...	39
Zornia ...	49
Zygophylleæ ...	29

Index of Popular Names.

	Page.
A.	
Adam's needle ...	205
African blue lily ...	203
African oil palm ...	210
Alkanet ...	121
Alligator pear ...	162
Almond tree (country).	68
Amazon lily ...	6
American aloe ...	198
American cotton ...	22
American crocus ...	198
American sumach ...	56
Annatto ...	11
Apple tree ...	65
Apricot tree ...	64
Arbor vitæ ...	182
Arracacha ...	85
Arrowroot ...	193
Artichoke (globe) ...	102
Artichoke (Jerusalem).	102
Arum lily ...	213
Asoca tree ...	59
Aster (China) ...	95
Asthma plant ...	166
Aubergine ...	126
Australian fan palm.	209
Awla tree ...	167
B.	
Babool ...	62
Bael tree ...	34
Balm ...	149
Balsam ...	31
Balsam of Tolu tree.	55
Balsam tree ...	17
Bamboo ...	229
Banana ...	194
Banyan tree ...	173
Baobab or Lalo tree.	23
Barbadoes cherry ...	28
Barbadoes gooseberry.	82
Bastard cedar ...	25
Bastard sandal ...	27
Bead tree ...	36
Bean (garden) ...	50
Bears Breech ...	140
Beefwood tree ...	178
Beet ...	156
Belgaum walnut tree.	168
Bellflower ...	104
Betel-leaf pepper ...	160
Betel-nut palm ...	208
Bhere-fruit tree ...	39
Bindweed ...	124
Birds-eye chillee ...	127
Birdsnest fern ...	232
Birthwort (Indian).	160
Bishops weed ...	84
Black gram ...	52
Black berry ...	64
Black pepper ...	160
Black wood (Australian).	62
Blistering cress ...	8
Blister weed ...	73
Blood flower ...	198
Bloodwood tree ...	71
Blue bottle ...	99
Blue gum ...	70
Borage ...	122
Borage (Indian) ...	148
Bottle gourd ...	77
Bowstring hemp ...	204
Box tree (Australian).	70
Do (red) ...	71
Boxwood ...	166
Bramble stalk ...	61
Bread fruit tree ...	176
Bringal ...	126
Broom grass ...	225
Buckthorn ...	40
Buckwheat ...	158
Buffalo-head grass...	226
Bullocks heart ...	4
Bunya Bunya ...	181
Bur-marigold ...	98
Burnet ...	64

	Page.
Button flower ...	97

C.

Cabbage ...	8
Cabbage palm ...	208
Calabash tree ...	137
Caledonian (New) pine.	181
Camel's foot ...	59
Campion ...	14
Candytuft ...	9
Cannon ball tree ...	71
Cannon plant ...	176
Cape gooseberry ...	127
Caper tree ...	10
Caraway ...	84
Cardamom ...	193
Carnation ...	14
Carob bean ...	60
Carrot ...	85
Cashew-nut tree ...	43
Castor-oil plant ...	169
Catchfly ...	14
Ceara rubber tree...	168
Cedar (bastard) ...	25
Cedar (white) ...	37
Cedar (West Indian).	238
Celery ...	84
Charcoal tree ...	172
Chaste tree ...	145
Cheer pine ...	181
Cherimoyer ...	4
Chervil ...	85
Chickweed (Indian).	14
Chillee ...	127
China box ...	32
Chinese sugar-cane ...	224
Chittagong wood ...	37
Chocho ...	238
Chocolate tree ...	25
Cholum ...	224
Chuffa or ground almond.	219
Cinnamon tree ...	162
Citron tree ...	33
Climbing fern ...	234
Clover ...	46
Clover (Soola) ...	48
Clubrush ...	220
Cocaine shrub ...	27
Cochineal plant ...	81
Cockscomb ...	153
Cocksfoot grass ...	229
Cocoa-nut palm ...	209
Coffee ...	91
Colocynth plant ...	78
Columbine ...	2
Copal tree ...	18
Contrayerva root ...	173
Coral tree ...	51
Coral shrub ...	168
Coriander ...	85
Cork tree (Indian)...	135
Cornflag ...	196
Cornflower or blue bottle.	99
Cotton ...	22
Country fig ...	175
Cow gram ...	53
Cowitch ...	51
Cowslip creeper ...	116
Crane's bill ...	30
Cress (garden) ...	9
Croton-oil plant ...	168
Cuckoo flower ...	8
Cucumber ...	78
Cuba-bast plant ...	22
Cudweed (Indian)...	96
Cummin seed ...	85
Curry-leaf tree ...	33
Custard apple ...	3
Cypress tree ...	180
Cypress (Californian).	181

D.

Daisy ...	101
„ (crown) ...	98
„ (Australian)...	102
Date palm ...	209
Day lily ...	203
Dandelion ...	100
Devils claw ...	137
Darnel-Rye grass ...	229
Dholl ...	53
Dill ...	85

	Page.
Dock ...	158
Doub grass ...	225
Dragon tree ...	205
Duckweed ...	217
Dumb-cane ...	216
Durian tree ...	23
Dwarf palmetto ...	209
E.	
Egg plant ...	126
Egyptian lotus ...	6
Elephant creeper ...	123
Elephant grass ...	212
Endive ...	100
Evening primrose ...	75
Everlasting flower...	96
Exile tree ...	113
F.	
Fan palm ...	209
Fennel flower ...	2
Fennel ...	84
Fenugreek ...	47
Feverfew ...	102
Fig-cactus ...	81
Fig (edible) ...	175
Fig tree ...	173
Flax ...	27
Fleabane ...	94
" (American).	95
Fleur-de-Lis ...	196
Flower fence ...	56
Foolish-oil plant ...	98
Forget-me-not (Indian)	123
Forget-me-not ...	121
Four-o'clock plant...	152
Foxtail grass ...	226
Fragrant Acacia ...	62
Fuller's teazel ...	92
Fumitory ...	7
G.	
Garden cress ...	9
Garland flower ...	192
Garlic ...	204
Gaub tree ...	108
Gingelie oil plant ...	137
Ginger ...	192
Ginger grass ...	222
Globe Amaranth ...	155
Glory pea ...	55
Glory tree ...	145
Goa bean ...	53
Goa potato ...	201
Goats-foot creeper...	124
Golden bamboo ...	229
Golden fern ...	233
Golden rod ...	94
Goldmohur tree ...	57
Goose-foot ...	156
Gourd ...	79
Gram (Bengal) ...	50
Granadilla ...	76
Grape vine ...	40
Grass-cloth plant ...	177
Green gram ...	52
Ground nut ...	50
Ground rattan ...	210
Guaiac tree ...	29
Guava tree ...	71
Guernsey lily ...	197
Guinea grass ...	222
Gum tree ...	70
H.	
Hairbell ...	104
Hard fern ...	232
Hariali grass ...	225
Haricot ...	52
Heartsease ...	11
Heartseed ...	42
Hedge aloe ...	205
Hedgehog cactus ...	82
Heliotrope ...	121
Hemp ...	172
Hemp-agrimony ...	94
Hemp (Hibiscus) ...	21
Henna shrub ...	73
Henbane ...	128
Hogplum ...	44

	Page.
Hogweed ...	152
Hollyhock ...	19
Honey locust tree ...	57
Honey shrub ...	29
Honey suckle (French).	48
Honey suckle (Nilgiri).	88
Hop plant ...	172
Horehound (white).	150
Horse gram ...	53
Horse radish tree ...	44
Humble plant ...	61
Hyssop ...	149

I.

Ice plant ...	83
Ife ...	204
Immortelle (French).	96
Indian beech ...	55
Indian copal tree ...	18
Indian corn ...	221
Indian crocus ...	192
Indian-fig cactus ...	81
Indian gooseberry tree.	167
Indian laburnum ...	58
Indian mustard ...	8
Indian pennywort ...	84
Indian privet ...	110
Indian Rhododendron.	72
Indian shot ...	194
India rubber tree ..	174
Indigo ...	47
Indi of Ceylon ...	209
Iron wood ...	107
Italian millet ...	222
Ivory wood ...	112
Ivy ...	86

J.

Jackfruit tree ...	176
Jalap plant ...	125
Jamoon ...	71
Jarrah tree ...	70
Jasmine ...	109
Java fig ...	174
Jerusalem thorn ...	57
Job's tears ...	224
Jungle geranium ...	90
Juniper (Chinese)...	181
Jute ...	27

K.

Kamala dye tree ...	169
Kauri pine ..	181
Kidney bean ...	52
Kino tree ...	54
Knapweed ...	99
Kola-nut tree ...	24
Korkapooli ..	63
Kus-kus grass ...	223

L.

Lac tree ...	18
Lady fern ...	232
Lady's slipper ...	190
Larkspur ...	2
Lavender ...	148
Leadwort ...	105
Leek ...	204
Lemon grass ...	224
Lemon tree ...	33
Lemon scented verbena.	146
Lentil ...	50
Leopard flower ...	196
Lettuce ...	100
Lettuce tree ...	152
Lignum-vitæ ...	29
Lily ...	202
Lime tree ...	33
Liquorice (wild) ...	50
Litchi tree ...	42
Locust tree ...	59
Logan tree ...	42
Logwood ...	60
Long pepper ...	160
Looking glass tree ..	24
Loquat tree ...	65
Lords and ladies ...	214
Love lies bleeding...	153
Lucerne ...	47
Lupin ...	47

	Page.
M.	
Madder ...	91
Madder (Indian) ...	91
Magnolia family ...	3
Mahogany tree ...	37
Mahwa tree ...	107
Maiden hair fern ...	230
Maize or Indian corn.	221
Malabar sago palm.	208
Male bamboo ...	229
Mallow ...	19
Mammoth tree ...	182
Mangosteen ...	16
Mango tree ...	43
Manilla hemp ...	194
Marguerite ...	98
Marigold ...	99
Marjorum ...	149
Marking nut tree ...	44
Marvel of Peru ...	152
Meadow rue ...	1
Medic (black) ...	47
Melon ...	78
Melon (wild) ...	78
Mesquit bean ...	61
Mexican lily ...	197
Mexican poppy ...	7
Michælmas daisy ...	95
Mignonette ...	10
Milk-hedge ...	166
Millet ...	222
Monkey flower ...	129
Moon flower ...	123
Moreton Bay chesnut.	56
Moreton Bay fig ...	175
Moreton Bay pine...	181
Morning glory ...	123
Motherwort (Siberian).	150
Mountain ebony ...	59
Mulberry ...	173
Mullein ...	129
Munzerabad creeper.	138
Musk-melon ...	79
Mustard ...	8
Myrobalan tree ...	68
Myrtle ...	71
Mysore thorn ...	56
Mysore toddy palm.	209
N.	
Nankeen cotton ...	22
Nasturtium ...	31
Nectarine ...	64
Neem tree ...	36
Neilgherry grass ...	103
Nepaul chillee ...	127
New Zealand flax ...	205
New Zealand pine...	181
Nicker plant ...	56
Night flowering cactus.	82
Night shade ...	126
Nilgiri lily ...	203
Nilgiri nettle ...	176
Norway spruce ...	181
Nutmeg ...	161
Nut tree (Australian)	163
O.	
Oak tree ...	178
Oat grass ...	229
Okra ...	21
Oleander ...	112
Olive tree ...	110
Onion ...	204
Orache ...	156
Orange tree ...	34
Oriental plane ...	177
Ox-eye ...	98
P.	
Pagoda tree ...	111
Palmetto ...	209
Palm fern ...	230
Palmiste ...	210
Palmyra palm ...	208
Paper mulberry ...	173
Paraguay tea plant.	38
Para rubber tree ...	171
Parsley ...	48
Parsley (Indian) ...	84

	Page.
Parsnip ...	85
Papaw tree ...	77
Passion flower ...	76
Pea ...	50
Peach tree ...	64
Pear tree ...	65
Peepul tree ...	174
Pennywort (Indian)	84
Peppermint ...	149
Pepper tree (bastard)	44
Peruvian bark ...	91
Peruvian cotton ...	22
Physic nut ...	168
Pigeon pea ...	53
Pine apple ...	200
Pine tree (New Zealand)	181
Pink ...	14
Pinnay oil tree ...	17
Pita fibre plant ...	199
Pitcher plant ...	159
Pith grass ...	212
Plantain tree ...	194
Plum tree ...	64
Pomegranate tree ...	74
Poon tree ...	17
Poppy ...	6
Portia tree ...	22
Potato ...	126
Potato (Goa) ...	201
Potato (Pondicherry)	201
Potato tree ...	126
Potato (Telinga) ...	214
Prickly comfrey ...	122
Prickly pear ...	81
Pride of India ...	74
Primrose ...	105
Prince's feather ...	153
Pu'as kino tree ...	51
Pumelo tree ...	34
Pumpkin ...	79
Purslane ...	15

Q.

Quaking grass ...	229
Quassia shrub ...	34
Quill bamboo ...	229

R.

Rabbit weed ...	166
Radish ...	9
Rain tree ..	63
Rangoon creeper ...	69
Rape or cole seed...	8
Raspberry ...	64
Raspberry (Indian)	64
Rattan cane palm	210
Rattan (ground) ...	210
Redwood tree ...	61
Rhea fibre ...	177
Rhododendron (Indian)	71
Rhubarb ...	158
Rice ...	221
Rice paper plant ...	86
Ringworm shrub ...	58
Rose ...	64
Rose apple ...	71
Rosemary ...	155
Rosewood ...	51
Royal fern ...	234
Royal palm of Cuba	210
Rozelle ...	21
Rue ..	32

S.

Sacred lotus ...	6
Safflower ...	99
Sage ...	149
Sal tree ...	18
Salt bush ...	157
Sandalwood tree ...	165
Sandbox tree ...	170
Sandpaper tree ...	175
Sapodilla tree ...	107
Sappan wood ...	56
Sarsaparilla ...	201
Sarsaparilla (bastard)	114
Satinwood tree ...	37
Scabious ...	92
Scammony ...	124
Scarlet runner ...	52

	Page.
Screw pine ...	211
Screw tree (Indian)	24
Senna ...	58
Shallot ...	204
She oak ...	178
Shepherds purse ...	9
Shield or wood fern	232
Shingle tree ...	62
Shoe flower ...	21
Silver fern ...	234
Silver oak ...	163
Silvery clary ...	149
Sisal hemp ...	199
Sispara creeper ...	130
Slipper of Venus ...	190
Slipperwort ...	131
Snake gourd ...	77
Snake lily ...	214
Snapdragon ...	129
Soapnut Acacia ...	62
Soapnut tree ...	42
Soapwort ...	14
Soja bean ...	51
Sorrel (wood) ...	30
Soursop ...	4
Southernwood ...	98
Sow-bread ...	105
Sow-thistle ..	100
Spanish broom ...	45
Spearmint ...	149
Speedwell ...	130,94
Spiderwort ...	207
Spiked millet ...	223
Spinach ...	156
Spinach (New Zealand)	83
Spleenwort ...	232
Spurge ...	166
Star of Bethlehem	204
Star gooseberry ...	167
St. Bruno's lily ...	203
Stock ...	7
Strawberry ...	64
Sturt's pea ...	55
Succory ...	100
Sugar-cane ...	223
Sugar palm ...	208
Sumach (Indian) ...	43
Sunflower ...	102
Sunflower (gold) ...	96
Sunn fibre ...	46
Swallowwort ...	115
Swan-river daisy ...	95
Sweet Basil ...	147
Sweet brier ...	65
Sweet flag ...	217
Sweet pea ...	50
Sweet potato ...	124
Sweet sop ...	4
Sweet William ...	14
Sword bean ...	52

T.

	Page.
Talipot or fan palm	209
Tallow tree (Chinese)	170
Tamarind tree ...	59
Tanners bark (Cassia)	58
Tapioca ...	168
Tasmanian pine ...	181
Teak tree ...	144
Tea shrub ...	17
Teosinte ...	221
Thorn apple ...	127
Thyme ...	149
Tiger flower ...	196
Tiger lily ...	203
Tinian pine ...	178
Toad flax ...	129
Tobacco ...	128
Toddy palm ...	209
Tomato ...	127
Tomato tree ...	126
Torch tree ...	90
Traveller's tree ...	195
Tree cotton ...	23
Tree fern ...	231
Trincomalee wood...	26
Trumpet flower ...	128
Trumpet lily (white)	202
Tuberose ...	203
Tulip ...	203
Turkscap ...	82
Turmeric ...	193
Turnip ...	8

	Page.
U.	
Umbrella tree ...	86
V.	
Vervain ...	144
Vervain (bastard)...	144
Vetch ..	50
Victorian Myall ...	63
Violet ...	11
Virginian creeper ...	41
Virginian stock ...	8
Virgin's bower ...	1
W.	
Wall flower ...	8
Wampee ...	33
Water chesnut ...	76
Water cress ...	8
Water lily ...	6
Water melon ...	79
Water soldier ...	217
Wattle ...	62
Wheat ...	221
White large thatching grass	224
White pepper ...	160
Wild date ...	209
Willow tree (Indian)	179
Willow (weeping)...	179
Wood apple ...	34
Woodbine ...	88
Wormwood ...	98
Woundwort ...	150
Y.	
Yam (common) ...	201
Yarrow or milfoil ...	98
Yate tree ...	70
Z.	
Zedoary ...	193
Zephyr flower ...	198
Zinghara nut ...	76

VERNACULAR INDEX.

	Page.
ಅ	
ಅಕ್ಕ ಜೋಗಿ ಗಿಡ	72
ಅಕ್ಕಿ ಸೊಪ್ಪು	167
ಅಕ್ಕಿ ಹರಿವೆ ಸೊಪ್ಪು	155
ಅಂಕೋಲೆ ಮರ	87
ಅಗಸೆ ಮರ	48
ಅಂಗಾರಕನ ಗಿಡ	32
ಅಚ್ಚಾರಿ ಗಿಡ	123
ಅಚ್ಚೆ (ನೆನೇಅಕ್ಕಿ) ಸೊಪ್ಪು	166
ಅಜ್ಜೆ (ನೆನೇಅಕ್ಕಿ) ಸೊಪ್ಪು	166
ಅಂಜೂರ ಗಿಡ	175
ಅಂಟುಗರಿಕೆ ಹುಲ್ಲು	222
,, ತೊಗರಿ ಗಿಡ	20
,, ಪುರುಳೆ ಗಿಡ	154
ಅಡ್ಡಸರ್ಪ ಗಿಡ	112
ಅಡಿಕೆ ಮರ	208
ಅಣಿಪೆ ಬಳ್ಳಿ	51
ಅಣ್ಣಿ ಸೊಪ್ಪು	153
ಅಂತರಗಂಗೆ ಗಿಡ	217
ಅತ್ತೀ ಮರ	175
ಅದರಗಂಟಿ ಹಂಬು	28
ಅನಂತಗೊಂಡೆ ಹುಲ್ಲು	220
ಅನನಾಸ ಗಿಡ	200
ಅಮಟೆ ಮರ	44
ಅಮ್ರದ ಸೊಪ್ಪು	122
ಅರಳೆ (ಅಂಜೆ) ಗಿಡ	22
,, ಕಾಯಿ ಮರ	69
,, (ರಾಗಿ, ಅಶ್ವತ್ಥ) ಮರ	174
ಅರಿಸಿನ ಗಿಡ	193
,, ಜೇನಂಗಿ ಮರ	48
,, ಬೊರುಗ ಮರ	11
ಅಲಸಂದಿ ಬಳ್ಳಿ	52
ಅವರೆ ಗಿಡ	53
ಅವರೆ	45
ಅಶೋಕದ ಮರ	59
ಆ	
ಆಚಲುಮರ	60
ಆಡಅಟಕುಮಾಮಿಡಿಆಕು(ತೆಲುಗು)	152
ಆಡು ಮುಟ್ಟದ ಗಿಡ	116
,, ಸೋಗೆ ಗಿಡ	142
ಆನೆಗಜ್ಜೆ ಗಿಡ	176
,, ಜಾಜಿಮಲ್ಲಿಗೆ ಗಿಡ	109
,, ನೆಗ್ಗಿಲು ಗಿಡ	158
ಆಲದ ಮರ	173
ಆಲ ಮರ	174
ಇ	
ಇಂಗಲೀಕ ಮರ	34
ಇಪ್ಪೆ ಮರ	107
ಇರುವಂತಿಗೆ ಮಲ್ಲಿಗೆ ಗಿಡ	109

	Page.
ಈ	
ಈಚಲು ಮರ	209
ಈರುಳ್ಳಿ	204
ಈಶ್ವರೀ ಬೇರು	160
ಉ	
ಉಗನಿಹಂಬು	123
ಉತ್ತರಾಣಿ ಗಿಡ	155
ಉಡಿಪೆ ಗಿಡ	26
ಉದಿ (ಸಿಂಟಿ) ಮರ	43
ಉನ್ನಿ ಮರ	18
ಉಬ್ಬು ಮರ	12
ಉರಲ ಗಡ್ಡೆ	126
ಊ	
ಊಗುಹುಲ್ಲು	219
ಎ	
ಎಕ್ಕದ ಗಿಡ	115
ಎಡಮುರಿ ಗಿಡ	24
ಎಣ್ಣೆಬುಡಿಗೆ ಗಿಡ	121
ಎತ್ತಕದಮರ	89
ಎದ್ದರಾಣಿಕೆಗಿಡ	90
ಎಲ್ಲಗ ಮರ	162
ಎಲಚಿ ಮರ	39
ಎಲೆಬಾಳೆ	194
ಎಳೇಜಂಬು ಹುಲ್ಲು	219
ಏ	
ಏಲಕ್ಕಿ ಗಿಡ	193
,, ಬಾಳೆ	194

	Page.
ಒ	
ಒಂದೆಲಗ ಸೊಪ್ಪು	84
ಒಳ್ಳೆ ತಂಗಡಿ ಗಿಡ	58
,, ತುಂಬೆ ಗಿಡ	150
,, ತುಳಸಿ ಗಿಡ	147
,, ತೊಪ್ಪ ಮರ	108
,, ಶ್ರೀವಿನ ಮರ	36
,, ಯೆಳ್ಳು ಗಿಡ	137
ಒಳ್ಳೆಳ್ಳು ಮರ	12
ಓ	
ಓಮು ಗಿಡ	84
ಕ	
ಕಕ್ಕೆ ಮರ	58
ಕಗ್ಗಲ ಮರ	62
ಕಂಗೊಂದಿ ಬಳ್ಳಿ	39
ಕಂಚಿವಾಳದ ಮರ	60
ಕರ್ಜೂರ	209
ಕಡಗದ ಮರ	88
ಕಡಲೆ ಗಿಡ	50
ಕಡ್ಡಿಯೆರಕಿನ ಗಿಡ	141
ಕಣ್ಣುಕ್ಕಗಲ ಮರ	16
ಕತ್ತಾಳೆ	198
ಕತ್ತಿಬಾಳೆ	194
ಕತ್ತಿರಿ ಗಿಡ	10
ಕತ್ತೆಮಲ್ಲಿಗೆ ಗಿಡ	109
ಕತ್ತೆಲಾಡಿ ಹುಲ್ಲು	220
ಕನ್ನೆಸೊಪ್ಪು	207
ಕರ್ಪೂರದ ಗಿಡ	149

	Page.
ಕಬ್ಬಸುರಿ ಮರ	175
ಕಬ್ಬು	223
ಕರ್ಬೂಜ ಬಳ್ಳಿ	79
ಕಮ್ಮಗಗ್ಗರೆ ಗಿಡ	147
ಕಮಲ	6
ಕರಡಿಕಣ್ಣಿನ ಗಡ್ಡೆ	203
ಕರಿ ಅರಳೆ (ಅಂಜೆ) ಗಿಡ	23
,, ಉಮ್ಮತ್ತಿ ಗಿಡ	128
,, ಕಮ್ಮಗಗ್ಗರೆ ಗಿಡ	147
,, ಕಾಟಿ ಗಿಡ	126
,, ಕೊರ್ಲೆ ಹುಲ್ಲು	222
,, ಜಾಲಿ (ಗೋಬ್ಬಿ) ಮರ	62
,, ಜೇನಂಗಿ ಮರ	48
,, ತುರುಕ ಹರಳು ಗಿಡ	168
,, ತುಳಸಿ ಗಿಡ	147
,, ದಪ್ಪಹಂಚಿ ಹುಲ್ಲು	224
,, ನೆಕ್ಕಲು ಗಿಡ	145
,, ಬಸುರಿ ಮರ	175
,, ಬೇವು ಮರ	33
,, ಪುನಗದ ಹುಲ್ಲು	225
,, ಸಂಣಜಂಬು ಹುಲ್ಲು	219
,, ಸಣ್ಣ ಹಂಚಿ ಹುಲ್ಲು	225
,, ಸಾಸಿವೆ ಗಿಡ	8
,, ಹಿಂಡಿ ಸೊಪ್ಪು	94
,, ಹೆಸಕೆ ಮರ	4
ಕಲ್ಲತ್ತಿ ಮರ	176
ಕಲ್ಲಾಲದ ಮರ	174
ಕಸ್ತೂರಿ ಕಮ್ಮಗಗ್ಗರೆ ಗಿಡ	147
,, ಜಾಲಿ ಮರ	62
ಕಳ್ಳಿ ಮರ	166
ಕಾಗೆಪುರಳೆ ಗಿಡ	83
,, ಮಾರೆ ಬಳ್ಳಿ	77
ಕಾಟೆಕುಂಬಳ ಮರ	169
ಕಾಡು ಅತ್ತಿ ಮರ	175
,, ಅವರೆ ಗಿಡ	51
,, ಇಪ್ಪೆ ಮರ	107
,, ಈರುಳ್ಳಿಗಡ್ಡೆ	197
,, ಓಮ ಗಿಡ	84
,, ಕಡಲೆ ಗಿಡ	53
,, ಕಣಿಗಲು(ಕೋಲ್ತೇಗ) ಮರ	2
,, ಕರ್ಣಕುಂಡಲ ಗಿಡ	31
,, ಕಂಬು ಹುಲ್ಲು	227
,, ಕಾರದಪ್ಪ ಸಜ್ಜೆ ಹುಲ್ಲು	225
,, ಕರಬೆ ಗಿಡ	33
,, ಕಹಿಹೀರೆ ಬಳ್ಳಿ	78
,, ಕುಂಬಳ ಬಳ್ಳಿ	41
,, ಕೆಂಪುಜೇರಿಗೆ ಗಿಡ	118
,, ಗಂಡುತುತ್ತಿ ಗಿಡ	21
,, ಗಣುಗಲು ಗಿಡ	112
,, ಗರುಗಲು ಗಿಡ	75
,, ಗಸಗಸೆ ಹುಲ್ಲು	227
,, ಗುಂಡು ಹುಲ್ಲು	219
,, ಗೊಬ್ಬಿ ಗಿಡ	99
,, ಜಡೆನವಣೆ ಹುಲ್ಲು	227
,, ಜೋಳ	143
,, ತಮ್ಮೆಬಳ್ಳಿ	52
,, ತುಂಗೆ ಗಿಡ	150
,, ತುಂಬೆ ಗಿಡ	150
,, ತೊಗರಿಗಿಡ	54
,, ದಬ್ಬೆಹುಲ್ಲು	226

Page.

ಕಾಡು ನವಣೆ ಹುಲ್ಲು 227
,, ನಿಂಬೆ (ನಾಯಿಬ್ಯಾಲದ)ಮರ 33
,, ನೀಲಿ ಬಳ್ಳಿ 47
,, ನೊಸೆಹುಲ್ಲು 225
,, ಪುಳ್ಳಂಪುರ್ಸಿ ಸೊಪ್ಪು 49
,, ಬರಗಹುಲ್ಲು 222
,, ಬಿಳಿಸಜ್ಜಬು ಹುಲ್ಲು 227
,, ,, ಸಾಮೆ ಹುಲ್ಲು 222
,, ಬುಡ್ಡಿಗಿಡ 46
,, ಬೆಂಡೆ ಗಿಡ 21
,, ಬೆಣ್ಣೆಬಿದಿರು ಸೊಪ್ಪು 207
,, (ಮರ) ಗೆಣಸು ಗಡ್ಡೆ 168–201
,, ಮಲ್ಲಿಗೆ ಗಿಡ 109
,, ಮೆಣಸು ಗಿಡ 32
,, ಮುದ್ದು ಗಿಡ 52
,, ಮುಸುಮಾನಿ ಹುಲ್ಲು 220
,, ಸಣ್ಣಕರಿಸಜ್ಜೆ ಹುಲ್ಲು 226
,, ,, ಪತ್ರಿ ಗಿಡ 147
,, ,, ಸಾಮೆ ಹುಲ್ಲು 25
,, ,, ಹಾರಕ ಹುಲ್ಲು 226
,, ಸಬ್ಬಸಿಗೆ ಸೊಪ್ಪು 7
,, ,, ಹುಲ್ಲು 219
,, ಸಾಸಿವೆ ಗಿಡ 8
,, ಹಾರಕಹುಲ್ಲು 222
,, ಹುರಳಿ ಗಿಡ 53
,, ಹೊಗೆ ಸೊಪ್ಪು 129
,, ಹೊಂಗೆ ಮರ 136
ಕಾಪಿ ಗಿಡ 91
ಕಾರದಕಾಸಿ ಹುಲ್ಲು 223
ಕಾರಾಚಿ ಮರ 59

Page.

ಕಾರೆ ಗಿಡ 90
ಕಾವಕೂಲ ಗಿಡ 75
ಕಾಸಿನಪತ್ತ (ಹಿಂದುಸ್ತಾನಿ) 100
ಕಿತ್ತಳೆ ಮರ 34
ಕಿರುನೆಲ್ಲಿ ಗಿಡ 167
,, ಮರ 167
ಕುಂಕುಮದ ಮರ 169
ಕುರ್ಟಿಗೆ ಗಿಡ 9
ಕುದರೆ ಮಸಾಲೆ ಸೊಪ್ಪು 47
ಕುಪ್ಪಿ ಗಿಡ 169
ಕುಂಬಳ ಬಳ್ಳಿ 79
ಕುರಿಡಿ ಗಿಡ 40
ಕುರುಡುಗಜ್ಜಿಗೆ ಗಿಡ 56
ಕುಸುಂಬಗಿಡ 99
ಕುಸುಂಬಿ ಸೊಪ್ಪು 99
ಕೂಗಟಿ ಮರ 42
ಕೂಡಲಿ ಸೊಪ್ಪು 139
ಕೂಲಿ (ಕಾಶ್ಮೀರಿ) ಮರ 145
ಕೂವೆ (ಬೊಬ್ಬಿ) ಮರ 17
ಕೆಕ್ಕರಿಕೆ ಬಳ್ಳಿ 78
ಕೆಂಚಿಗೆ ಮರ 56
ಕೆಂಪು ಕಾಚಿಗಿಡ 126
,, ಕಾಸಿಗಣುಗಲು ಗಿಡ 111
,, ಗುಳ್ಳಗಿಡ 126
,, ಚಿತ್ರಮೂಲ ಗಿಡ 105
,, ಚಿಲ್ಲರಿವೆ ಸೊಪ್ಪು 154
,, ಜಂಬು ಹುಲ್ಲು 219
,, ದಂಟು 154
,, ದಾವರೆ 6
,, ದಾಳಿಮರ 24

	Page.
ಕೆಂಪು ಪುಂಡ್ರಿಕೆ ಗಿಡ	21
„ ಬೂರುಗ ಮರ	23
„ ಸೀಗೇ ಗಿಡ	62
ಕೆರೆ ಬೆಂಡು ಗಿಡ	75–158
„ ಹಿಪ್ಪಲಿ ಸೊಪ್ಪು	144
ಕೇಸರಿಕೆ ಮರ	178
ಕೇಸವೆ ದಂಟು	213
ಕೊಂಡಮಾಮಿಡಿಮಾನು (ತೆಲುಗು)	56
ಕೊತ್ತುಂಬರಿ ಸೊಪ್ಪು	85
ಕೊಮರಕ ಮರ	31
ಕೊಮ್ಮ ಸೊಪ್ಪು	83
ಕೊರಿಂಡ ಗಿಡ	111
ಕೊಳವಂಕೆ ಗಿಡ	138
ಕೋಣನಕೊಂಬು ಮರ	136
„ ತಲೆ ಹುಲ್ಲು	226
ಕೋರ್ಲೆ ಹುಲ್ಲು	223
ಕೋಲ್ ತಗಸಿ ಗಿಡ	58
ಕೋಲ್ತಿಗೆ (ಕಾಡು ಕಣಿಗಲು ಮರ)	2
ಕೋಳಿಜುಟ್ಟು ಸೊಪ್ಪು	73
ಗ	
ಗರ್ಗತ್ತಿ ಮರ	175
ಗಜನಿಂಬೆ ಗಿಡ	33
ಗಂಜಲು ಗರಿಕೆ ಹುಲ್ಲು	223
ಗಜ್ಜಿಗೆ ಗಿಡ	56
ಗಂಟುಕಾಚಿ (ನಾಲೆ) ಹುಲ್ಲು	228
ಗಂಟು ಕಾಳು ಗಡ್ಡೆ	141
ಗಂಡು ಅಕ್ಕಬು ಹುಲ್ಲು	222
„ ಗಂಜಲು ಗರಿಕೆ ಹುಲ್ಲು	223
„ ಬಿದರು	229
ಗಣಗಲು ಗಿಡ	112
ಗಡ್ಡೆ ಗುಂಡು ಹುಲ್ಲು	219
„ ವಡವಿನ ಹುಲ್ಲು	222
ಗಬ್ಬು ಸೊಪ್ಪು	95
ಗರಿಕೆ ಹುಲ್ಲು	225
ಗರುಗಲು ಸೊಪ್ಪು	97
ಗಸಗಸೆ ಗಿಡ	6
ಗಾಜಿನ ಗಡ್ಡೆ	85
ಗಾಂಧಾರೀ ಗಿಡ	95
ಗಿಡಕರ್ನಿಕೆ ಬಳ್ಳಿ	52
ಗಿಲ್ಕೆ ಮರ	176
ಗುಜ್ಜ ಬಾಳೆ	195
ಗುಂಡುತಗಸಿ ಗಿಡ	58
„ ಮಲ್ಲಿಗೆ ಗಿಡ	109
ಗುಬಿಚಿ ಗಿಡ	140
ಗುರಿಗೆ ಮರ	166
ಗುರುಗಂಜಿ ಬಳ್ಳಿ	50
ಗುಲಾಬಿ ಗಿಡ	64
ಗೊಳೂರ ಬಾಳೆ	194
ಗೆಣ್ಣು ನೆಲ್ಲವರೆ ಗಿಡ	53
ಗೇದಿಗೆ ಗಿಡ	211
ಗೇರು ಮರ	44
ಗೊಡ್ಡು ಈಚಲು ಮರ	182
„ ಗೇರು ಮರ	44
„ ಮಿಟ್ಲ ಮರ	173
ಗೊರ್ಕ್ಲು ಮರ	172
ಗೊರಿವಿ ಮರ	90
ಗೋಣಿ ಮರ	173
ಗೋಧಿ	221

	Page.
ಗೋರಂಟಿ ಗಿಡ	73
ಗೋರಿ ಗಿಡ	47
ಗೌಜು ಮರ	71
ಗೌರೀ ಬಳ್ಳಿ	124
ಚ	
ಚಂಡುಮಲ್ಲಿಗೆ ಗಿಡ	101
ಚಂದ್ರಬಾಳೆ	195
ಚನ್ನಂಗಿ ಮರ	74
ಚಪ್ಪರದ ಬದನೆ ಗಿಡ	127
ಚವುರಿ ಹುಲ್ಲು	220
ಚಿಟ್ಟು ಹರಳು ಗಿಡ	170
ಚಿಟ್ಟುಂಡಿ ಗಿಡ	37
,, ತಾಂಡ್ರಿ ಮರ	162
ಚಿತ್ರಮೂಲ ಗಿಡ	105
ಚಿನ್ನದಾವರೆ ಗಿಡ	16
ಚಿರಿವೇರು ಗಿಡ	89
ಚಿಲ್ಕರಿವೆ ಸೊಪ್ಪು	154
ಚಿಳ್ಳು ಮರ	118
ಚುರಚುರಕನ ಗಿಡ	176
ಚೆಂಡುಚೇಣಿ ಹುಲ್ಲು	219
ಚೇವೆ ಮರ	71
ಜ	
ಜಾಗಳಗಂಟಿ ಮರ	108
ಜಂಡು ಹುಲ್ಲು	229
ಜಡೆತೆನೆ ಹುಲ್ಲು	229
ಜಡೇಶಂಕರ ಹುಲ್ಲು (ತೆನೆ ಹುಲ್ಲು)	226
ಜಂತಲ ಮರ	112
ಜಂಬು ಹುಲ್ಲು	212
ಜರಿ ಹುಲ್ಲು	227
ಜಾಜಿಕಾಯಿ ಮರ	161
ಜಾಣೆ ಮರ	26
ಜಾಪಾಳದ ಮರ	168
ಜಾಲುರಿ ಮರ	18
ಜೀರಿಗೆ ಗಿಡ	85
ಜುಟ್ಟುವೆ ಬಳ್ಳಿ	115
ಜುಬುರುಕೋರ್ಲೆ ಹುಲ್ಲು	227
ಜೆಂಬಾಳೆ	195
ಜೋಳ	221
ತ	
ತಗ್ಗಿ ಮರ	146
ತಡಸಲು ಮರ	26
ತಂಡ್ರಸಿ ಗಿಡ	39
ತಪಸಿ ಮರ	121
ತಮಟೆ ಗಿಡ	52
ತಾರೆ ಮರ	68
ತಾಳೆ ಮರ	208
ತುಂಗೆ ಹುಲ್ಲು	219
ತುತ್ತಿ ಗಿಡ	20
ತುಪ್ಪದ ಹೀರೆ ಬಳ್ಳಿ	78
ತುರುಕ (ಕಾಡು) ಹರಳು ಗಿಡ	168
,, ಗೇರು ಮರ	43
ತುರುಕು ತೊಗರಿ ಗಿಡ	53
ತುಳಸಿ ಗಿಡ	147
ತೂಪ್ರ ಮರ	108
ತೆಂಗಿನ ಮರ	209

	Page.
ತೇಗದ ಮರ	144
ತೊಟ್ಲ ಗಿಡ	10
ತೂಂಡೆ ಬಳ್ಳಿ	79
ತೊರ (ಬಿಳಿ) ಮತ್ತಿ ಮರ	69

ದ

ದಗ್ಗಿ ಸೊಪ್ಪು	154
ದಂಟು ಸೊಪ್ಪು	154
ದತ್ತೂರ ಗಿಡ	7
ದಬ್ಬೆಜಂಬು ಹುಲ್ಲು(ಪುಸುಮಾನಿ)	219
ದರ್ಭೆ (ಹೊಡಕೆ) ಹುಲ್ಲು	223
ದವನದ ಗಿಡ	98
ದಾಸಾಳದ ಗಿಡ	21
ದಾಳಿಂಬರೇ ಗಿಡ	74
ದ್ರಾಕ್ಷಿ ಗಿಡ	40
ದಿಂಡಿಗ ಮರ	69
ದುಂಡು (ಏಳುಸುತ್ತಿನ)ಮಲ್ಲಿಗೆ ಗಿಡ	109
ದುಂಪರಾಶ್ಮಿ ಗಿಡ	192
ದುರಂಜಿ ಮರ	4
ದೂಪದ ಮರ	18
ದೇವಗಣುಗಲು ಮರ	112
ದೇವಗರಿಗೆ ಮರ	16
ದೇವದಾರು ಮರ	27
ದೊಡ್ಡ ಅಂಟುಪುರಲೆ ಹುಲ್ಲು	226
„ ಗೋಣಿ ಸೊಪ್ಪು	15
„ ತುಪ್ರಿ ಹುಲ್ಲು	223
„ ಪಟಿಕೆ ಗಿಡ	142
„ ಪತ್ರಿ ಗಿಡ	148
„ ಪುರುಳೆ ಹುಲ್ಲು	227
ದೊಡ್ಡ ಬಿಂದಿಗೇ ಗಿಡ	19
„ ಬಿಳಿ ಕಾಚಿ ಹುಲ್ಲು	226
„ ವನಮುಗಳಿ ಗಿಡ	97
„ ಹಂಚಿ ಹುಲ್ಲು	225
„ ಹಾಲ್ಮಿಕ್ಕೆಬಳ್ಳಿ	78

ನ

ನಗರೆ ಗಿಡ	89
ನಚ್ಚಕ್ಕಡ್ಡಿ	141
ನಂಜಿನಕೊರಡು (ಮುಷ್ಟಿ) ಮರ	118
ನಂದಿಬಟ್ಲ ಗಿಡ	112
„ ಮರ	74
ನರಂಜಿ ಬಳ್ಳಿ	124
ನರಿಬಾಲದ ಗಂಡು ಹುಲ್ಲು	227
„ ಹುಲ್ಲು	226
ನವಣೆ	222
ನವ್ಲಾದಿ ಮರ	145
ನವಿಲುದೊಂದಿ ಹುಲ್ಲು	226
„ ಬಣ್ಣದ ಹುಲ್ಲು	225
ನಸುಗುನ್ನಿಬಳ್ಳಿ	51
ನಾಗರೇ ಗಿಡ	38
ನಾಗಸಂಪಗೆ ಮರ	17
ನಾತಹೂ ಗಿಡ	144
ನಾಮಸಕ್ಕೊತ್ತಿ ಸೊಪ್ಪು	156
ನಾಯಿಕಲಮೆ ಗಿಡ	111
„ ತುಳಸಿ ಗಿಡ	147
„ ನೇರಳೆ ಮರ	71
ನಾರಂಬೇಳೆ ಸೊಪ್ಪು	10
ನಾರವೆ (ಈಚಿ) ಮರ	145

	Page.
ನಿಂಬೆ ಗಿಡ	33
ನಿರವಂಜಿ ಮರ	179
ನೀರುಗಣಗಲು ಗಿಡ	158
,, ಗೋಣಿ ಸೊಪ್ಪು	130
,, ಬರಗು ಹುಲ್ಲು	228
,, ಬ್ರಾಂಹಿ ಸೊಪ್ಪು	129
,, ಪುಸುಮಾನಿ ಹುಲ್ಲು	220
,, ಸಜ್ಜೆ ಹುಲ್ಲು	222
,, ಸಬ್ಬಸಿಗೆ ಹುಲ್ಲು	219
ನೀಲಿ ಗಿಡ	47
ನೀಲಿ ಬಳ್ಳಿ	47
ನುಗ್ಗೆ ಮರ	44
ನುಣಾ ಮರಂ (ಟ್ಯಾಮಲ್)	91
ನುನ್ನುನ್ನಿ ಗಿಡ	66
ನೆಕ್ಕಿಲು ಗಿಡ	145
ನೆಲಬೆಳು ಸೊಪ್ಪು	207
,, ತಗಸಿ ಗಿಡ	58
,, ಬಿದರು ಹುಲ್ಲು	226
,, (ಬೇರು) ಕಡಲೆ ಗಿಡ	50
,, ಬೇವಿನ ಗಿಡ	141
ನೆಲ್ಲವರೆ ಗಿಡ	53
ನೆಲಸಂಪಗೆ ಗಿಡ	192
ನೆಲಾವರಿಕೆ ಗಿಡ	58
ನೆಲ್ಲಿ ಮರ	167
ನೆಲ್ಲು	221
,, ಜೆಳ್ಳು ಸೊಪ್ಪು	49
,, ಷಾಮೆ (ತೆಲುಗು)	222
ನೆಸೆ (ಲವಂಚಿ) ಹುಲ್ಲು	224
ನೇಗಲುಕನ್ನೆ ಸೊಪ್ಪು	207
ಪೊಸೆ ಹುಲ್ಲು	228

ಪ

	Page.
ಪಗಡೆ ಮರ	107
ಪಚ್ಚಬಾಳೆ	195
,, ತೆನೆ ಗಿಡ	148
ಪಚ್ಚೇರಿ ಮರ	54
ಪಡವಲು ಬಳ್ಳಿ	77
ಪತಂಗದ ಮರ	56
ಪನ್ನೇರಳೆ ಮರ	71
ಪರಂಗಿ ಅಕ್ಕಿ ಹುಲ್ಲು	226
ಪರಂಗಿ ಮರ	77
,, ಮೆಣಸಿನ ಗಿಡ	127
ಪರ್ಪಾಟಕ ಸೊಪ್ಪು	83
ಪಾದರಿ ಮರ	136
ಪಾಪಟಿ ಗಿಡ	89
ಪಾಪಾಸ ಕತ್ತಾ?	81
ಪಾಪುಲಿ ಗಿಡ?	39
ಪಾರ್ಪುಲಿ ಗಿಡ	40
ಪಾರಿಜಾತ ಗಿಡ	110
ಪಾವಟೆ ಮರ	90
ಪಿಲಾಲದ ಮರ	174
ಪುಟ್ಟಬಾಳೆ	195
ಪುಟ್ಟು ಅಂಟು ಪುರುಳೆ ಹುಲ್ಲು	225
ಪುತ್ರಜೀವಿ ಮರ	4
ಪುದೀನ (ಹಿಂದುಸ್ತಾನಿ)	149
ಪುರುಷರತ್ನ ಸೊಪ್ಪು	11
ಪುಳ್ಳಂಪುರಿಸಿ ಸೊಪ್ಪು	30
ಪೆಟ್ಲುಗೋರಿ ಹುಲ್ಲು	220
ಪೆನ್ನಬಾಟ್ಟುವೆ ಗಿಡ	147

	Page.
ಬ	
ಬಗನಿ ಮರ	208
ಬಂಗಿಸೊಪ್ಪು ಗಿಡ	172
ಬಜೆ ಗಿಡ	213
ಬಟಾಣಿ ಗಿಡ	50
ಬಟ್ಟೇಹರಿನ ಗಿಡ	48
ಬದನಿಕೆ	164
ಬದನೆ ಗಿಡ	126
ಬಂದರೆ ಗಿಡ	42
ಬನ್ನಿ ಮರ	62
ಬರಗು	222
ಬಲ್ಲಗಿ ಮರ	17
ಬಳ್ಳಿ ಹಂಬು	124
ಬಸಲೆ ಸೊಪ್ಪು	156
ಬಸವನಪಾದದ ಮರ	60
ಬ್ರಹ್ಮದಂಡೆ ಗಿಡ	99
ಬಾಗೆ ಮರ	63
ಬಾಚಣಿಗೆ (ಕೆತ್ತೇಗ) ಮರ	88
ಬಾಡಬಕ್ಕ ಬಳ್ಳಿ	57
ಬಾಣಮಲ್ಲಿಗೆ ಗಿಡ	109
ಬಾದಾಮಿ ಮರ	68
ಬಾಯಿಬಸಲಿ ಬಳ್ಳಿ	157
ಬಾಳೆ ಗಿಡ	194
ಮರ	108
ಬಾಸ್ತಿಮಲ್ಲಿಗೆ ಗಿಡ	109
ಬಿಕ್ಕೆ ಗಿಡ	90
ಬಿದಿರು	229
ಬಿರಕು ಮರ	135
ಬಿರಡಿ ಮರ	54
ಬಿಲ್ವಪತ್ರೆ ಮರ	34
ಬಿಲ್ವಾದ ಮರ	63
ಬಿಲಿಂಬಿ ಮರ	31
ಬಿಳಿಅಕ್ಕಬು ಹುಲ್ಲು	222
,, ಉತ್ತರಾಣಿ ಗಿಡ	155
,, ಉಮ್ಮತ್ತಿ ಗಿಡ	128
,, ಎಕ್ಕದ ಗಿಡ	115
,, ಕಮ್ಮಗಗ್ಗರೆ ಗಿಡ	147
,, ಕಂಚಿವಾಳದ ಮರ	59
,, ಕಾಸಿಗಣುಗಲು ಗಿಡ	111
,, ಕೋರ್ಲೆ ಹುಲ್ಲು	223
,, ಗುರುಗಂಜಿ ಬಳ್ಳಿ	50
,, ಚಿತ್ರಮೂಲ ಗಿಡ	105
,, ಚಿಲ್ಕರಿವೆ ಸೊಪ್ಪು	154
,, ಜಂಬು ಹುಲ್ಲು	219
,, ಜಾಲಿ ಮರ	62
,, ಜೋಳ	224
,, ತುಳಸಿ ಗಿಡ	147
,, ದಂಟು	154
,, ದಾಳಿ ಮರ	24
,, ದಾವರೆ	6
,, ದೊಡ್ಡಕಾಚಿ ಹುಲ್ಲು	224
,, ನೆಕ್ಕಿಲು ಗಿಡ	145
,, ಬಸರಿ ಮರ	174
,, ಬೂತಾಳ ಮರ	86
,, ಬೊರುಗ ಮರ	23
,, ಬೆಂಡು ಗಿಡ	148
,, ವಾರ್ಜಿವೆ ಮರ	51
,, ಪುಷ್ಪ ಗಿಡ	110

	Page.
ಬಿಳಿ ಸಣ್ಣ ಜಂಬು ಹುಲ್ಲು	220
„ ಸಾಮೆ ಹುಲ್ಲು	222
„ ಸಾಸಿವೆ ಗಿಡ	9
„ ಸೂಲಿ ಗಿಡ	167
„ ಹಿಂಡಿ ಸೊಪ್ಪು	155
ಬೀಟಿ ಮರ	54
ಬುಗಡಿ ಗಿಡ	112
ಬುಡ್ಡಶಾಕರ ತೀಗೆ (ತೆಲುಗು)	42
ಬುಡ್ಡೆ (ಬಂಜೋಲ) ಗಿಡ	127
„ ಸೊಪ್ಪು	153
„ ಹಣ್ಣು ಗಿಡ	127
ಬೂತಾಳೆ ಮರ	26
ಬೂಡು ಕುಂಬಳ ಬಳ್ಳಿ	79
ಬೂಸಿ ಗಿಡ	141
ಬೆಕ್ಕಿನ ಅಜ್ಜಿ ಬಳ್ಳಿ	152
„ ತರಡು ಗಿಡ	46
„ ತಲೆ ಗಿಡ	19
ಬಟ್ಟಗುಂಡು ಗಿಡ	218
ಬಟ್ಟ ತಂಗಡಿ ಗಿಡ	58
ಬಟ್ಟದ ಅಕ್ಕಬು ಹುಲ್ಲು	227
„ ಕಂಗಲು ಮರ	2
„ ಕನ್ನೆ ಸೊಪ್ಪು	206
„ ಕಮ್ಮಗಗ್ಗರೆ ಗಿಡ	89
„ ಕುಪ್ಪೆ ಗಿಡ	95
„ ಕುರಿವೇಲು ಗಿಡ	148
„ ಗಣಗಲು ಮರ	2
„ ತುತ್ತಿ ಮರ	25
„ ದವನ ಗಿಡ	95
„ ಬೆಂಡುಗಿಡ	20
„ ಲಾಳೆ ಹುಲ್ಲು	224

	Page.
ಬೆಂಡು ಗಿಡ	48
ಬೆಂಡು ಮರ	172
ಬೆಂಡೆ ಗಿಡ	21
ಬೆಂಡೆನಾರು ಮರ	23
ಬೆಪ್ಪಾಲೆ ಮರ	112
ಬೆಳ್ಳುಳ್ಳಿ	204
ಬೇಲದ ಮರ	34
ಬೇಳೇಕಾಳು ಸೊಪ್ಪು	45
ಬೊಂತೆಕಳ್ಳಿ ಮರ	166
ಬೋಗಿ (ಕರಲಿಬೋಗಿ) ಮರ	18
ಬೋದಿನ ಗಿಡ	106

ಭಾ

ಭದ್ರಹುಲ್ಲು	219
ಭಾತಾಳ (ಪೇನಾರಿ) ಮರ	24
ಭೀಮನಕಡ್ಡಿ	19
„ ಸೊಪ್ಪು	139

ಮ

ಮಂಗಮಾರಿ ಸೊಪ್ಪು	150
ಮಂಗರುವಳ್ಳಿ ಬಳ್ಳಿ	40
ಮಂಗಾರಿ ಮರ	89
ಮಂಜದ ಕಾಲು ಹುಲ್ಲು	225
ಮಂಜತ್ತಿ (ಮಂಜಡಿ) ಮರ	61
ಮಜ್ಜಿಗೆ ಗಡ್ಡೆ	204
„ ಬೇರು ಗಿಡ	155
„ ಸೊಪ್ಪು	14
ಮಂಜಿನ ನಾರು	204
„ ಪತ್ರೆ ಗಿಡ	98
ಮದ್ರಂಗಬಾಳೆ	194

	Page.
ಮನೋರಂಜ್ಯ ಬಳ್ಳಿ	4
ಮರ ಅಕ್ಕಬು ಹುಲ್ಲು	226
ಮರಗಾಡೆ ಗಿಡ	10
ಮರಳು ಉಮ್ಮತ್ತಿಗಿಡ	97
ಮರುವಾಜಲ ಮರ	74
ಮಾದವಾಳ ಗಿಡ	33
ಮಾಮ ಮರ	35
ಮಾವಿನ ಮರ	43
ಮಿಟ್ಟಿ ಮರ	172
ಮಿರಡಿ ಗಿಡ	12
ಮುರ್ಕಾ ಮರ	43
ಮುಗಿ ಮರ	62
ಮುಡುಗುವಾವರೆ ಗಿಡ	61
ಮುತ್ತುಕಾರಾಸಿ ಗಿಡ	94
ಮುತ್ತುಗ ಮರ	51
ಮುಮಿಗೆಣಸು ಗಡ್ಡೆ	201
ಮುದ್ದೇಕೋಸು	8
ಮುಲ್ಲಂಗಿ ಗಡ್ಡೆ	9
ಮುಳ್ಳ ಬಳ್ಳಿ	124
ಮುಳ್ಳುಗೆಣಸು ಗಡ್ಡೆ	201
,, ಜೀನಂಗಿಗಿಡ	48
,, ದಂಟು	153
,, ಬಸಲೆ ಸೊಪ್ಪು	83
,, ರಾಮಫಲ ಮರ	4
ಮೂಕರಿಪೆ ಮರ	39
ಮೂಡ ಮರ	35
ಮೂಡುಗಟ್ಟುನ (ಬೋಡುಕಡಲೆ) ಸೊಪ್ಪು	96
ಮೆಣಸಿನ ಗಿಡ	127
ಮೆಣಸು ಬಳ್ಳಿ	160
ಮೆಂತ್ಯದ ಸೊಪ್ಪು	47
ಮೊಗಅಟಿಕು ಮಾಮಿಡಿಆಕು ತೆಲುಗು	83
ಮೊಗಜೀರ ಚೆಟ್ಟು	150
ಮೊಬ್ಬುಗಂಜಲಗರಿಕೆ ಹುಲ್ಲು	228
ಯ	
ಯಿಂಪಲಿ ಚೆಟ್ಟು	48
ರ	
ರಕ್ತಚಂದನ ಮರ	54
ರಂಗಮಾಲೆ ಗಿಡ	12
ರಸಬಾಳೆ	194
ರಾಗಿ	228
ರಾಜಬಾಳೆ	195
ರಾಮಗುಳ್ಳ ಗಿಡ	126
ರಾಮನಡಿಕೆ ಮರ	161
ರಾಮಫಲ ಮರ	4
ರುದ್ರಾಕ್ಷಿ ಮರ	25
,, ಹೂಗಿಡ	155
ರೇಷ್ಮೆ (ಕಂಬಳಿ) ಗಿಡ	173
ಲ	
ಲಕ್ಕೋಟೆ ಮರ	65
ಲವಂಗಪಟ್ಟೆ ಮರ	162
ಲಿಂಗತೊಂಡೆ ಬಳ್ಳಿ	79
ಲೋಳಿಸರ ಗಿಡ	205
ವ	
ವಜ್ರದನೀಲಿ ಗಿಡ	48
ವಡುವಾರದ ಮರ	61
ವನಸಂಪಗೆ ಗಿಡ	59

	Page.
ವಾಜೀಪೆ ಮರ	51
ವಿಭೂತಿ (ನಾಲ್ಕು ಘಂಟೆ ಹೂ) ಗಿಡ	152
ವಿಷಮಧಾರಿ ಗಿಡ	145
ವಿಷ್ಣುಕ್ರಾಂತಿ ಸೊಪ್ಪು	125
ವೀಳ್ಯದೆಲೆ ಬಳ್ಳಿ	160
ವುಡಿಪೆ ಗಿಡ	26
ವುದ್ದು ಗಿಡ	52
ವುಸುವಾನಿ ಹುಲ್ಲು	219
ಶ	
ಶಿವಲಿಂಗ ಮರ	61
ಶ್ರೀಗಂಧ ಮರ	165
ಸ	
ಸಕೊತ್ತಿ ಮರ	34
„ ಸೊಪ್ಪು	156
ಸಜ್ಜೆ	223
ಸಣಬು ಗಿಡ	46
ಸಣ್ಣ ಅಂಟ್ಟು ಪ್ರರಳೆ ಹುಲ್ಲು	223
„ ಈಚಲು ಮರ	209
„ ಊಗು ಹುಲ್ಲು	227
„ ಕರಕಾಚಿ ಹುಲ್ಲು	224
„ ಗಜ್ಜಿಗೆ ಗಿಡ	56
„ ಗುಂಡು ಹುಲ್ಲು	207
„ ಗೆರ್ಸೆ ಹಂಬು	115
„ ಜಾಜಿ ಮಲ್ಲಿಗೆ ಗಿಡ	109
„ ತಪ್ಪೆ ಬಳ್ಳಿ	221
„ ದರ್ಬೆ ಹುಲ್ಲು	228
„ ನೆಗ್ಗಿಲು ಗಿಡ	29
„ ಪುರಳೆ ಹುಲ್ಲು	227
ಸಣ್ಣ ಸಣ್ಣ ಬಿಂದಿಗೆ ಗಿಡ	19
„ ಮಳ್ಳಿ ಗಿಡ	109
„ ವನಮುಗಳೆ ಗಿಡ	97
„ ಸಂಕುದಾಳಿ ಗಿಡ	196
ಸನ್ನಿ ಗಿಡ	100
ಸಂಪಗೆ ಮರ	3
ಸಬ್ಬಸಿಗೆ ಸೊಪ್ಪು	85
ಸಮುದ್ರಪಾಲ ಬಳ್ಳಿ	123
ಸರದಾಳೆ ಗಡ್ಡೆ	141
ಸಲಾದಿ	100
ಸಾಂಬ್ರಾಣಿ ಮರ	35
ಸ್ವಾಮಿ ಮರ	37
ಸಾವೆ	223
ಸಾಸಿವೆ ಗಿಡ	8
ಸಿಗರೆ ಬದನಿಕೆ	164
ಸಿರಂಟು ಗಿಡ	144
ಸಿರಪೊಟ್ಲ ಗಿಡ	151
ಸೀಗಟೆ ಗಿಡ	50
ಸೀಗೆ ಗಿಡ	62
ಸೀಬೆ ಗಿಡ	142
ಸೀಮೆ ಅಗಸೆ ಗಿಡ	58
„ ತಂಗಡಿ ಮರ	58
„ ಹುಣಿಸೆ ಮರ	63
ಸೀರನಿಗೆ ಹಂಬು	115
„ ಸೊಪ್ಪು	158
ಸೀವಂತಿಗೆ ಗಿಡ	98
ಸುಂಕತ್ತಿ ಮರ	57
ಸುಂಕು ತೆನೆ ಹುಲ್ಲು	223
„ ದರ್ಬೆ ಹುಲ್ಲು	228
ಸುಕ್ಕೆ ಸೊಪ್ಪು	158

	Page.
ಸುಗದಿ ಗಿಡ	5
ಸುಗಂಧಿ ಬಳ್ಳಿ	114
ಸುರ್ಗಿ ಮರ	17
ಸಜ್ಜಲು ಮರ	63
ಸುರಹೊನ್ನೆ ಮರ	17
ಸೂಜಿ ಮಲ್ಲಿಗೆ ಗಿಡ	109
ಸೂರ್ಯಕಾಂತಿ ಸೊಪ್ಪು	105
ಸೇವು ಗಿಡ	65
ಸೇಳುವಾರದ ಮರ	176
ಸೊಗಡು ತಗಸಿ ಗಿಡ	58
ಸೊಂಟಿ ಗಿಡ	192
,, ಹುಲ್ಲು	222
ಸೊಳ್ಳೆ (ಕೆಂಡಲ್) ಮರ	120
ಸೋಪು ಗಿಡ	84
ಸೋರೆ ಬಳ್ಳಿ	77
ಸಾಡಂಗಿ ಗಿಡ	126
ಸಾತೆ ಬಳ್ಳಿ	78

ಹ

ಹಕ್ಕಿವಾಜಿ ಹುಲ್ಲು	228
ಹಡಗ ಮರ	87
ಹಂಬು ಕಳ್ಳಿ	115
,, ಹಾರಕ ಹುಲ್ಲು	222
ಹರಳು ಗಿಡ	169
ಹರಿವೆ ಸೊಪ್ಪು	154
ಹಲಸಿನ ಮರ	176
ಹಸರುಗನ್ನಿ ಮರ	54
,, ಜಾಜಿ ಮಲ್ಲಿಗೆ ಗಿಡ	109
ಹಾಗಲಬಳ್ಳಿ	78
ಹಾರಕ	223
ಹಾಲಿಪ್ಪೆ (ಕಪ್ಪುಸರ) ಮರ	121
ಹಾಲ್ಮುಲ್ಲಂಗಿ ಸೊಪ್ಪು	100
ಹಾಲ್ಮಕ್ಕೆ ಬಳ್ಳಿ	78
ಹಾವು ನಂಜಿನ ಗಿಡ	32
ಹಾವುಬಾಳೆ	195
ಹಿಪ್ಪಲಿ ಬಳ್ಳಿ	160
ಹಿರಮದ್ದಿನ ಗಿಡ	127
ಹೀರೆಬಳ್ಳಿ	78
ಹುಚ್ಚು ಕೋರ್ಲೆ ಹುಲ್ಲು	226
,, ಜೋಳ	224
,, ತುಂಬೆ ಗಿಡ	150
,, ತೊಂಡೆ ಬಳ್ಳಿ	78
,, ನಾರಿ ಗಿಡ	146
,, ನಿಂಬೆ ಮರ	33
,, ಬೇವಿನ ಮರ	36
,, ಸಕೊತ್ತಿ ಸೊಪ್ಪು	156
ಹುಬ್ಬೆಳ್ಳಾ ಗಿಡ	97
ಹುಣಿಸೆ ಮರ	59
ಹುರಗಲು ಮರ	37
ಹುರಳಿಕಾಯಿ ಗಿಡ	52
ಹುರಳೆ ಗಿಡ	53
ಹುಲಿಮಾಸೆ ಹುಲ್ಲು	224
ಹುಲುವೆ ಮರ	68
ಹೂವರಸಿ ಮರ	21
ಹೆಜ್ಜಾಲದ ಮರ	164
ಹೆಣ್ಣುಗೊರಿವಿ ಗಿಡ	35
ಹೆತ್ತುತುತ್ತಿ ಗಿಡ	19
ಹೆಬ್ಬಹಲಸಿನ ಮರ	176
,, ಹುಲುವೆ ಮರ	69

	Page.		Page.
ಹೆಬ್ಬೇವಿನ ಮರ	36	ಹೊನಗೊನೆ ಸೊಪ್ಪು	155
ಹೆಸರು ಗಿಡ	52	ಹೊನ್ನೆವರಿಕೆ ಸೊಪ್ಪು	96
ಹೇರಳೆ ಗಿಡ	33	ಹೊನ್ನೆ ಮರ	54
ಹೊಂಗೆ ಮರ	55	ಹೊನ್ನೆ ಹೂ ಹುಲ್ಲು	219
ಹೊಗೆ ಸೊಪ್ಪು	128	ಹೊಮ್ಮುಗ? ಸೊಪ್ಪು	220
ಹೊಟ್ಟೆಬಾಗೆ ಮರ	63	ಹೊಲದ ತೊಗರಿ ಗಿಡ	53
ಹೊತ್ತು ತಿರುಗನ (ಸೂರ್ಯಕಾಂತಿ) ಗಿಡ	102	,, ಪುಂಡ್ರಿಕೆ ಗಿಡ	21
ಹೊಡಿಕೆ ಹುಲ್ಲು	222	,, ಮೆಣಸಿನ ಗಿಡ	127
		ಹಾಲಿಗೆ ಮರ	62

Vernacular in English Characters.

	Page.
A	
A'chalu mara ...	60
A'da ataku mámidi áku (Telugu) ...	152
Adaraganchi hambu ...	28
Addasarpa gida ...	112
Adike mara ...	208
A'dumuttada gida ...	116
A'dusóge gida ...	142
Agase mara ...	48
Ajje soppu ...	166
Akka jògi gida ...	72
Akki harivi soppu ...	155
Akki soppu ...	167
A'la mara ...	174
A'lada mara ...	173
Alasandi balli ...	52
Amate mara ...	44
Amrada soppu ...	122
Ananás gida ...	200
Ananta gonde hullu ...	220
A'ne gajje gida ...	176
A'ne jáji mallige gida ...	109
A'ne neggilu gida ...	158
Angàrakana gida ...	32
Anipe balli ...	51
Anjúr gida ...	175
Ankóle mara ...	87
Annasúli gida ...	167
Anne soppu ...	153
Antaragange gida ...	217
Antu garike hullu ...	222
„ purule gida ...	154
„ togari gida ...	20
Arale (Anji) gida ...	22
Aralekáyi mara ...	69
Arali rágí (Aswatha) mara ...	174
Arisina búruga mara ...	11
Arisina gida ...	193
„ jinangi mara ...	48
Asókada mara ...	59
Atchári gida ...	123
Atche (Nenéakki) soppu	166
Atti mara ...	175
Avare gida ...	53
Avare ...	45
B	
Báchanige (Hettéga) mara ...	88
Bádabakka balli ...	57
Bádámi mara ...	68
Badane g.da ...	126
Badanike ...	164
Bagani mara ...	208
Báge mara ...	63
Baje gida ...	213
Bále gida ...	194
„ mara ...	108
Ballagi mara ...	17
Balle hambu ...	124
Bána mallige gida ...	109
Bandare gida ...	42
Bangi soppu gida ...	172
Banni mara ...	62
Baragu ...	222
Basale soppu ...	156
Basavanapádada mara ...	60
Básti mallige gida ...	109
Batáni gida ...	50
Batteharikina gida ...	48
Báyi basali balli ...	157
Bekkina ajje balli ...	152
„ tale gida ...	19
„ taradu gida ...	46
Bélada mara ...	34
Bélekálu soppu ...	45
Bellulli ...	204
Bendé gida ...	21
„ náru mara ...	23
Bendu gida ...	48
„ mara ...	172
Beppále mara ...	112
Betta gundu gida ...	218
„ tangadi „ ...	58

	Page.
Bettada akkabu hullu ...	227
„ bendu gida ...	20
„ davana gida ...	95
„ ganagalu mara ...	2
„ kammagaggare gida ...	89
„ kanigala mara ...	2
„ kanne soppu ...	206
„ kuppe gida ...	95
„ kurivélu gida ...	148
„ lále hullu ...	224
„ tutti mara ...	25
Bhadre hullu ...	219
Bhátála (Pénári) mara ...	24
Bhímana kaddi ...	19
„ soppu ...	139
Bidiru ...	229
Bikke gida ...	90
Bili akkabu hullu ...	222
„ basuri mara ...	174
„ bendu gida ...	148
„ bhútála mara ...	86
„ búruga mara ...	23
„ chilkarive soppu ...	154
„ chitramúla gida ...	105
„ dále mara ...	24
„ dantu ...	154
„ dodda káchi hullu ...	224
„ guruganji balli ...	50
„ hindi soppu ...	155
„ jáli mara ...	62
„ jambu hullu ...	219
„ jóla ...	224
„ kammagaggare gida..	147
„ kanchiválada mara...	59
„ kásiganigalu gida ...	111
„ korle hullu ...	223
„ nekkilu gida ...	145
„ sáme hullu ...	222
„ sanna jambu hullu...	220
„ sásive gida ...	9
„ súli gida ...	167
„ távare ...	6
„ tulasi gida ...	147
„ ummatti gida ...	128
„ uttaráni gida ...	155
„ warjipe mara ...	51
„ wuppi gida ...	110
Bili yekkada gida ...	115
Bilimbi mara ...	31
Bilvapatre mara ...	34
Bilvárada mara ...	63
Biratu mara ...	135
Biridi mara ...	54
Bíti mara ...	54
Bódina gida ...	106
Bóghi (Kiral bóghi) mara ...	18
Bonte kalli mara ...	166
Bramhadande gida ...	99
Buddakákaratíge (Tel.).	42
Budde (Bondúla) gida ...	127
„ hannu gida ...	127
„ soppu ...	153
Búdu kumbala balli ...	79
Bugadi gida ...	112
Búsi gida ...	141
Bútále mara ...	26

C

Chandra bále ...	195
Channangi mara ...	74
Chapparadabadane gida...	127
Chavuri hullu ...	220
Chendu chéni hullu ...	219
„ mallige gida ...	101
Chépe mara ...	71
Chillu mara ...	118
Chilkarive soppu ...	154
Chinnadávare gida ...	16
Chirivéru gida ...	89
Chitramúla gida ...	105
Chittu haralu gida ...	170
Chittundi gida ...	37
Chittutándri mara ...	162
Churachurakana gida ...	176
Cíge gida ...	62

D

Dabbe jambu hullu (Vusumáni?) ...	219
Dagli soppu ...	154
Dálimbare gida ...	74
Dantu soppu ...	154

	Page.
Darbhe (Hodake) hullu...	223
Dásálada gida ...	21
Dattúra gida ...	7
Davana gida ...	98
Dévadáru mara ...	27
Dévaganagalu mara ...	112
Dévagarige mara ...	16
Dindiga mara ...	69
Doddaantu purule hullu.	226
„ bili káchi hullu ...	226
„ bindige gida ...	19
„ góni soppu ...	15
„ hálmekke balli ...	78
„ hanchi hullu ...	225
„ patike gida ...	142
„ patri gida ...	148
„ purule hullu ...	227
„ tapri hullu ...	223
„ vana mugali gida.	97
Drákshi gida ...	40
Dumpanáme gida ...	192
Dundu (ælu suttina) mallige gida ...	109
Dúpada mara ...	18
Duranji mara ...	4

E

Eruvantige mallige gida.	109

G

Gabbu soppu ...	95
Gadde gundu hullu ...	219
„ vadavina hullu ...	222
Gaja nimbe gida ...	33
Gájina gadde ...	85
Ganagalu gida ...	112
Gándhári gida ...	95
Gandu akkabu hullu ...	222
„ bidiru ...	229
„ ganjala garike hullu	223
Ganjalu garike hullu ...	223
Gantu káchi (Nále) hullu ...	228
„ kálu gida ...	141
Gargatti mara ...	175
Garike hullu ...	225
Garugalu soppu ...	97
Gasagase gida ...	6
Gédige gida ...	211
Gejjige gida ...	56
Gennu nellavare gida ...	53
Géru mara ...	44
Gida karnike balli ...	52
Gilke mara ...	176
Goddu géru mara ...	44
„ ichalu mara ...	182
„ mitli mara ...	173
Gódhi ...	221
Góni mara ...	173
Góranti gida ...	73
Góri gida ...	47
Gorivi mara ...	90
Górklu mara ...	172
Gouju mara ...	71
Gourí balli ...	124
Gubichi gida ...	140
Gujja bále ...	195
Gulábi gida ...	64
Gúlúr bále ...	194
Gundu mallige gida ...	109
„ tagaci gida ...	58
Gurige mara ...	166
Gurugangi balli ...	50

H

Hadaga mara ...	87
Hágalu balli ...	78
Hakki várji hullu ...	228
Halasina mara ...	176
Hálippe (Kappúra) mara.	121
Hálmekke balli ...	78
Hálmullangi soppu ...	100
Hambu háraka hullu ...	222
„ kalli ...	115
Háraka ...	223
Haralu gida ...	169
Harive soppu ...	154
Hasaruganni mara ...	54
Hasaru jáji mallige gida.	109
Hávu bále ...	195
Hávunanjina gida ...	32
Heb balasina mara ...	176
„ bévina mara ...	36

	Page.
Heb hulive mara ...	69
Hejjálada gida ...	164
Hennu gorivi gida ...	35
Hérile gida ...	33
Hesaru gida ...	52
Hettu tutti gida ...	19
Hippali balli ...	160
Híre balli ...	78
Hirimaddina gida ...	127
Hodike hullu ...	222
Hoge soppu ...	128
Holada menasina gida ...	127
„ pundrike gida ...	21
„ togari gida ...	53
Hommugali hullu ...	220
Honagone soppu ...	155
Honge mara ...	55
Honnavarike gida ...	96
Honne hú hullu ...	219
„ mara ...	54
Hotté báge mara ...	63
Hottutirugana (Súrya-kánti) gida ...	102
Howlige mara ...	62
Hule míse hullu ...	224
Hulive mara ...	68
Hunise mara ...	59
Huragalu mara ...	37
Hurali gida ...	53
Huralikayi gida ...	52
Hutchu bévina mara ...	36
„ jóla ...	224
„ kórle hullu ...	226
„ náre gida ...	146
„ nimbe mara ...	33
„ sakkotti soppu ...	156
„ tonde balli ...	78
„ tumbe gida ...	150
„ yellu gida ...	97
Húvarasi mara ...	22

I

	Page.
I'chalu mara ...	209
Ingalíka mara ...	34
Ippe mara ...	107
I'rulli ...	204
I'swarí béru ...	160

J

	Page.
Jadé shankara (tene) hullu ...	226
„ tene hullu ...	229
Jagalaganti mara ...	108
Jain bále ...	195
Jájikáyi mara ...	161
Jálári mara ...	18
Jandu hullu ...	229
Jáne mara ...	26
Jantala mara ...	112
Jápálada gida ...	168
Jari hullu ...	227
Jirige gida ...	85
Jóla ...	221
Juburu kórle hullu ...	227
Jumbu hullu ...	212
Juttuve balli ...	115

K

	Page.
Kabbasuri mara ...	175
Kabbu ...	223
Kácinapatta (Hind) ...	100
Kadagada mara ...	88
Kadale gida ...	50
Kaddi yerakina gida ...	141
Kádu atti mara ...	175
„ avare gida ...	51
„ baragu hullu ...	222
„ bendé gida ...	21
„ benne bidiru soppou.	207
„ bili sajjabu hullu ...	227
„ „ sáme hullu ...	222
„ budde gida ...	46
„ dabbe hullu ...	226
„ gandu tutti gida ...	22
„ ganugalu gida ...	112
„ garugalu gida ...	75
„ gasagase hullu ...	227
„ góbli gida ...	99
„ gundu hullu ...	219
„ háraka hullu ...	222
„ hoge soppu ...	129
„ honge mara ...	136
„ hurali gida ...	53
„ ippe mara ...	107

	Page.
Kàdu íruli gadde ...	197
„ jadé navane hullu...	227
„ jóla gida ...	143
„ kadale gida ...	53
„ káhi híre balli ...	78
„ kambu hullu ...	227
„ kanigala (kóltéga) mara ...	2
„ karebe gida ...	33
„ kari dappa sajje hullu ...	225
„ karna kundala gida.	31
„ kempu jírige gida...	118
„ kumbala balli ...	41
„ mallige gida ...	109
„ (mara) genasu gadde ...168 &	201
„ menasu gida ...	32
„ navane hullu ...	227
„ nìli balli ...	47
„ nimbe (Náye bélada) mara ...	33
„ nose hullu ...	225
„ ómu gida ...	84
„ pullampursi soppu...	49
„ sabbasige soppu ...	7
„ „ hullu ...	219
„ sanna háraka hullu.	226
„ „ kari sajje hullu...	226
„ „ patri gida ...	147
„ „ same hullu ...	225
„ sásive gida ...	8
„ tamme balli ...	52
„ togari gida ...	54
„ tumbe gida ...	150
„ tunge gida ...	150
„ vuddu gida ...	52
„ vusumáni hullu ...	220
Kége máre balli ...	77
„ purule gida ...	83
Kaggali mara ...	62
Kakke mara ...	58
Kallálada mara ...	174
Kallatti mara ...	176
Kalli mara ...	166
Kamala ...	6
Kammagaggare gida ...	147
Kanchivalada mara ...	60
Kangondi balli ...	39
Kankutgal mara ...	16
Kanne soppu ...	207
Kápi gida ...	91
Kárachi mara ...	59
káradi káci hullu ...	223
„ kannina gadde ...	203
Karbúj balli ...	79
Káre gida ...	90
Kari arale (anji) gida ...	23
„ basuri mara ...	175
„ bévu mara ...	33
„ dappa hanchi hullu.	224
„ hesare mara ...	4
„ hindi soppu ...	94
„ jáli (gobli) mara ...	62
„ jínangi mara ...	48
„ káchi gida ...	126
„ kammagaggare gida.	147
„ korle hullu ...	225
„ nekkilu gida ...	145
„ sanna hanchi hullu.	225
„ „ jambu hullu...	219
„ sásive gida ...	8
„ tulasi gida ...	147
„ turukaharalu gida...	168
„ ummatti gida ...	128
„ vunagada hullu ...	228
Karjúra ...	209
Karpúrada mara ...	149
Kasturi jáli mara ...	62
„ kammagaggare gida ...	147
Kát-kumbla mara ...	169
Kattáli ...	198
Katte bále ...	194
„ ládi hullu ...	220
„ mallige gida ...	109
Kattiri gida ...	10
Kávakúla gida ...	75
Kekkarike balli ...	78
Kempu búruga mara ...	23
„ chilkarive soppu.	154
„ chitramúla gida...	105
„ cíge gida ...	62
„ dále mara ...	24
„ dantu ...	154

	Page.
Kempu gulla gida ...	126
„ jambu hullu ...	219
„ káchi gida ...	126
„ kási ganugalu gida...	111
„ pundrike gida ...	21
„ távare ...	6
Kenjige mara ...	56
Kere bendu gida ...	75 & 158
„ hippali soppu ...	144
Késarike mara ...	178
Késave dantu ...	213
Kirunelli gida ...	167
„ mara ...	167
Kittále mara ...	34
Kolavanke gida ...	138
Kóli juttu soppu ...	73
Kóltagaci gida ...	58
Kóltéga (kadu kanigalu mara) ...	2
Komarak mara ...	31
Komme soppu ...	83
Kónana Kombu mara ...	136
„ tale hullu ...	226
Kondamamidi mánu (Tel) ...	36
Korinda gida ...	111
Kórle hullu ...	223
Kottumbari soppu ...	85
Kúdali soppu ...	139
Kudure masále soppu ...	47
Kúgati mara ...	42
Kúli (kásmíri) mara ...	145
Kumbala balli ...	79
Kunkumada mara ...	169
Kuppi gida ...	169
Kuridi gida ...	40
Kurtige gida ...	9
Kurudu kajjiga gida ...	56
Kusumbe soppu ...	99
Kusumba gida ...	99
Kùve (Bobbi) mara ...	17

L

Lakkóte mara ...	65
Lavangapatte mara ...	162
Linga tonde balli ...	79
Lólisara gida ...	205

M

Mádavála gida ...	33
Mádi mara ...	35
Madaranga bále ...	194
Majjige béru gida ...	155
„ gadde ...	204
„ soppu ...	14
Manchada kálu hullu ...	225
Mangamári soppu ...	150
Mangári mara ...	89
Mangaruvalli balli ...	40
Manjatti (Manjadi) mara.	61
Manjina naru ...	204
Manji patre gida ...	98
Manoranjan balli ...	4
Mara akkabu hullu ...	226
Mara gáde gida ...	10
Marlu ummatti gida ...	97
Maruváchala mara ...	74
Mávena mara ...	43
Menasina gida ...	127
Menasu balli ...	167
Mentyada soppu ...	47
Miridi gida ...	12
Mitli mara ...	172
Mobbu ganjala garike hullu ...	228
Moga ataku mámidi chettu (Tel.) ...	83
Mogabíra chettu (Tel.) ...	150
Múda mara ...	35
Mudi genasu gadde ...	201
Mudde kosu ...	8
Múdugattina (Bódu-kadale) soppu...	96
Mudugudavare gida ...	61
Mugali mara ...	62
Mukarive mara ...	39
Mullangi gadde ...	9
Mulli balli ...	124
Mullu basale soppu ...	83
„ dantu ...	153
„ genasu gadde ...	201
„ jínangi gida ...	48
„ rámaphala mara...	4
Murkali mara ...	43
Muttuga mara ...	51

	Page.
Muttu kárási gida ...	94
N	
Nágare gida ...	38
Nagaré gida ...	89
Nágasampage mara ...	17
Náma sakkótti soppu ...	156
Nandibatlu gida ...	112
Nandi mara ...	74
Nanjinakoradu (Mushti) mara ...	118
Nárambéle soppu ...	10
Naranji balli ...	124
Nárave (I'ji) mara ...	145
Naribálada gandu hullu.	227
„ hullu ...	226
Nasugunni balli ...	51
Náta hú gida ...	144
Natchu kaddi ...	141
Navane (kan) ...	222
Navilu bannada hullu ...	225
„ dondi hullu ...	226
Navládi mara ...	145
Náyi kalame gida ...	111
„ nérale mara ...	71
„ tulasi gida ...	147
Négalu kanne soppu ...	207
Nekkilu gida ...	145
Nela bévina gida ...	141
„ bidaru hullu ...	226
„ chelu soppu ...	207
„ (Biru) kadale gida..	50
„ sampage gida ...	192
„ tagaci gida ...	58
Nela varike gida ...	58
Nella sháma (Telugu) ...	222
Nellavare gida ...	53
Nelli mara ...	167
Nellu ...	221
„ jellu soppu ...	49
Nese (Lavanchi) hullu ...	224
Níli balli ...	47
„ gida ...	47
Nimbe gida ...	33
Niravanji mara ...	179
Níru baragu hullu ...	228
„ brámhi soppu ...	129
„ ganagalu gida ...	158
Nìru góni soppu ...	130
„ sabbasige hullu ...	219
„ sajje hullu ...	222
„ vusumáni hullu ...	220
Nose hullu ...	228
Nugge mara ...	44
Nunámaram (Tamil) ...	91
Nunnuni gida ...	66
O	
Obblu mara ...	12
Olle bévina mara ...	36
Olle tangadi gida ...	58
„ tulasi gida ...	147
„ tumbe gida ...	150
„ tùpra mara ...	108
„ yellu gida ...	137
O'mu gida ...	84
Ondelaga soppu ...	84
Oogani hambu ...	123
Oogu hullu ...	219
Oonni mara ...	18
P	
Pache bále ...	195
Pacheri mara ...	54
Pádari mara ...	136
Padavalu balli ...	77
Pagade mara ...	107
Pannérile mara ...	71
Pápás kattàli ...	81
Pápati gida ...	89
Pápuli gida ...	39
Parangi akki hullu ...	226
„ mara ...	77
„ menasina gida ...	127
Párijáta gida ...	110
Parpátaka soppu ...	83
Párpuli gida ...	40
Patangada mara ...	56
Patche tene gida ...	148
Pávate mara ...	90
Pennajuttuve gida ...	147
Petlugori hullu ...	220
Pilálada mara ...	174
Pudína (Hind.) ...	149
Pullampurasi soppu ...	30
Purusharatna soppu ...	11
Putta bále ...	195

	Page.
Puttrajivi mara ...	4
Puttu antu purule hullu.	225

R

Rági ...	228
Rája bále ...	195
Raktachandana mara ...	54
Ráma gulla gida ...	126
Rámanadike mara ...	161
Rámaphála mara ...	4
Rangumále gida ...	12
Rasa bále ...	194
Réshme (Kambali) gida.	173
Rudrákshi hú gida ...	155
„ mara ...	25

S

Sabbasige soppu ...	85
Sajje ...	223
Sakkótti mara ...	34
„ (gida) soppu ...	156
Saládi ...	100
Sámbráni mara ...	35
Sáme ...	223
Sampage mara ...	3
Samudrapála balli ...	123
Sanabu gida ...	46
Sanna antu purule hullu.	223
„ bindige gida ...	19
„ dabbe hullu ...	228
„ gajjiga gida ...	56
„ gerse hambu ...	115
„ gundu hullu ...	207
„ húgu hullu ...	227
„ íchalu mara ...	209
„ jáji mallige gida ...	109
„ kari káchi hullu ...	224
„ malle gida ...	109
„ neggilu gida ...	29
„ purule hullu ...	227
„ sankudáli gida ...	196
„ tapri balli ...	221
„ vana mugali gida.	97
Sanni gida ...	100
Saradále gadde ...	141
Sásive ...	8
Savadangi gida ...	126
Savute balli ...	78
Séluvárada mara ...	176
Sevuntige gida ...	98
Sévu gida ...	65
Síbe gida ...	142
Sigare badnike ...	164
Sígati gida ...	50
Síme agase gida ...	58
„ hunise mara ...	63
„ tangadi mara ...	58
Síranige hambu ...	115
„ soppu ...	158
Sirantu gida ...	144
Sirapotli gida ...	151
Sivalinga mara ...	61
Sogadu tagaci gida ...	58
Solle (kendal) mara ...	120
Sonti gida ...	192
„ hullu ...	222
Sopu gida ...	84
Sore balli ...	77
Srígandha mara ...	165
Sugadi gida ...	5
Sugandhi balli ...	114
Sujjalu mara ...	63
Súji mallige gida ...	109
Sukke soppu ...	158
Sunkatti mara ...	57
Sunku dabbe hullu ...	228
„ tene hullu ...	223
Surahonne mara ...	17
Surgi mara ...	17
Suryakánti soppu ...	105
Swami mara ...	37

T

Tádasalu mara ...	26
Taggi mara ...	146
Tale mara ...	208
Tamate gida ...	52
Tandrási gida ...	39
Tapasi mara ...	121
Tare mara ...	68
Tégada mara ...	144
Tengina mara ...	209

	Page.
Tondi balli ...	79
Tora matti (Bili matti) mara ...	69
Totla gida ...	10
Tulasi gida ...	147
Tunge hullu ...	219
Tuppada híre balli ...	78
Tupra mara ...	108
Turukagéru ma ra ...	43
„ (kadu) haralu gida ...	168
„ togari gida ...	53
Tutti gida ...	20
U	
Udi (sinti) mara ...	43
Urala gadde ...	126
Uttarani gida ...	155
V	
Vana sampage gida ...	59
Vibhúti (Nálkughante hu) gida ...	152
Vílyadele balli ...	160
Vishmadhári gida ...	145
Vishnukránti soppu ...	125
Vuddu gida ...	52
Vusumáni hullu ...	219
W	
Wadu wárada mara ...	61
Wajarada níli gida ...	48
Wárjipe mara ...	51
Wudipe gida ...	26
Y	
Yalé jambu hullu ...	219
Yedamuri gida ...	24
Yeddaránike gida ...	90
Yekkada gida ...	115
Yelachi mara ...	39
Yélakki bále ...	194
„ gida ...	193
Yele bále ...	194
Yellaga mara ...	162
Yempali chettu ...	48
Yennebudige gida ...	121
Yettacada mara ...	89

3 2044 102 801 495